Canon

imageRUNNER 3300/2800/2200 Series

PS/PCL Printer Guide



Please read this guide before operating this equipment.
After you finish reading this guide, store it in a safe place for future reference.

ENG

About the Manuals for the Machine

The manuals for this machine are divided as follow. Please read them to suit your needs.

Purpose	Manual
For Basic Use Troubleshooting	Reference Guide
For Basic Copying For Convenient Copying	Copying Guide
For Basic Mail Box Function Use For Convenient Mail Box Function Use	Mail Box Function Guide
For Fax Use For Convenient Fax Use	Facsimile Guide
For Remote UI Use	Remote UI Guide
For Setting Up the Network Connection & Installing the CD-ROM Software	Setup Guide
For Printer Use	**PS/PCL Printer Guide** (This Document)
For Installing Printer Driver, etc.	PCL Driver Guide PS Driver Guide
For Connecting and Setting the Network	Network Guide

The manuals supplied with optional equipment are included in the list above.
Depending on the system configuration and product purchased, some manuals may be unavailable (irrelevant).

- The product illustration on the cover may differ slightly from your product.

How This Manual Is Organized

Chap 1 **Before You Start Using the Machine** Please read this chapter first 1

Chap 2 **Menu Functions and Operation** 2

Chap 3 **Printer Settings Menu Functions and Operation** 3

Chap 4 **Report Settings Menu** 4

Chap 5 **Troubleshooting** 5

Chap 6 **Appendix** 6

Contains the Index and Appendix.

PREFACE

Thank you for purchasing the Canon Network Multi-PDL Printer Kit-C1. This manual describes the additional functionality this kit provides for an imageRUNNER 3300/2800/2200 Series machine, and how to specify these functions from the touch panel display.

Please read this manual thoroughly before using the Network Multi-PDL Printer Kit-C1 with an imageRUNNER 3300/2800/2200 Series machine in order to familiarize yourself with the added capabilities, and to make the most of the functions. After reading this manual store it in a safe place for future reference.

CAUTION:
In this manual, CAUTION MESSAGES with this ⚠ symbol indicate that neglecting the suggested procedure or practice could result in personal injury.

FCC (Federal Communications Comission)
NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the Operator's Manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

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About Abbreviations

In this manual, Microsoft® Windows® and PostScript 3 emulation are referred to as Windows and PS, respectively.

Safety Information

■ **A. Laser Safety**

This Product complies with 21 CFR Chapter 1 Subchapter J as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. This means that the Product does not produce hazardous laser radiation.
Since radiation emitted inside the Product is completely confined within protective housings and external covers, the laser beam can not escape from the machine during any phase of user operation.

■ **B. CDRH Regulations**

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured from August 1, 1976. Compliance is mandatory for products marketed in the United States. The label shown below indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

■ **C. Additional Informaftion**

When servicing the optical system of the printer, be careful not to place screwdrivers or other shiny objects in the path of the laser beam. Also, accessories such as watches and rings should be removed before working on the printer. The reflected beam, though invisible, can permanently damage your eyes. The label bearig the following warning is attached to the insides of covers where there is danger of exposure to laser radiation:

DANGER- Laser radiation when open.
AVOID DIRECT EXPOSURE TO BEAM.

DANGER- Laser radiation when open and interlock defeated.
AVOID DIRECT EXPOSURE TO BEAM.

CAUTION

- **Use of controls, adjustments or performance of procedures other than those specified in the manual may result in hazardous radiation exposure.**

CANON INC.
3-30-2 SHIMOMARUKO, OHTA-KU, TOKYO, JAPAN
MANUFACTURED:
THIS PRODUCT CONFORMS WITH DHHS RADIATION
PERFORMANCE STANDARD, 21 CFR CHAPTER 1 SUBCHAPTER J.

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How to Use This Manual

Symbols Used in This Manual

The following symbols are used in this manual, for explanations of procedures and restrictions, handling cautions, and instructions that should be observed for safety.

WARNING	Indicates a warning concerning operations that may lead to death or injury to persons if not performed correctly. In order to use the machine safely, always pay attention to these warnings.
CAUTION	Indicates a caution concerning operations that may lead to injury to persons or damage to property if not performed correctly. In order to use the machine safely, always pay attention to these cautions.
IMPORTANT	Indicates operational warnings and restrictions. Be certain to read these items to operate the machine correctly, and to avoid damage to the machine.
NOTE	Indicates notes for operation or additional explanations. Reading these is highly recommended.

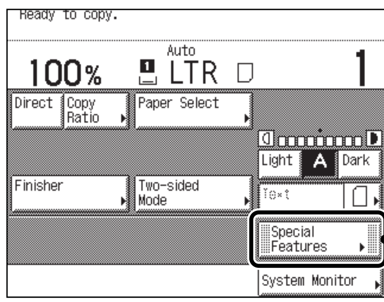
Keys Used in This Manual

The following symbols and key names are used in this manual:
Control panel keys.................. (Start)
Touch panel display keys.........[OK]

Displays Used in This Manual

Screenshots of the touch panel display used in this manual are those taken when the Finisher-J1, Cassette Feeding Unit-W1, Feeder (DADF-H1), Printer Kit, FAX Board, and Network Interface Adapter are attached to the imageRUNNER 3300. Note that functions that cannot be used depending on the model or options, are not displayed on the touch panel display.
The keys which you should press are marked with , as shown below.
When multiple keys can be pressed on the touch panel display, all keys are marked. Select the keys which suit your needs.

1 **Place the original, and press [Special Features].**



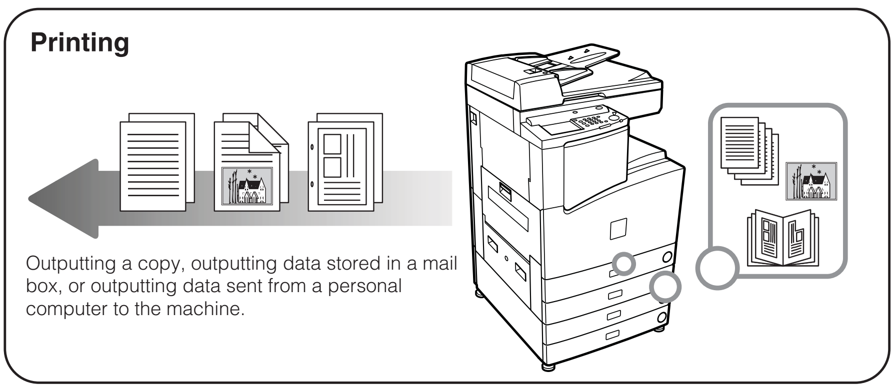
Press this key for operation

Illustrations Used in This Manual

Unless otherwise noted, illustrations used in this manual are those taken when the Finisher-J1 and Cassette Feeding Unit-W1 are attached to the imageRUNNER 3300.

Operation of the Machine and Terms Used in This Manual

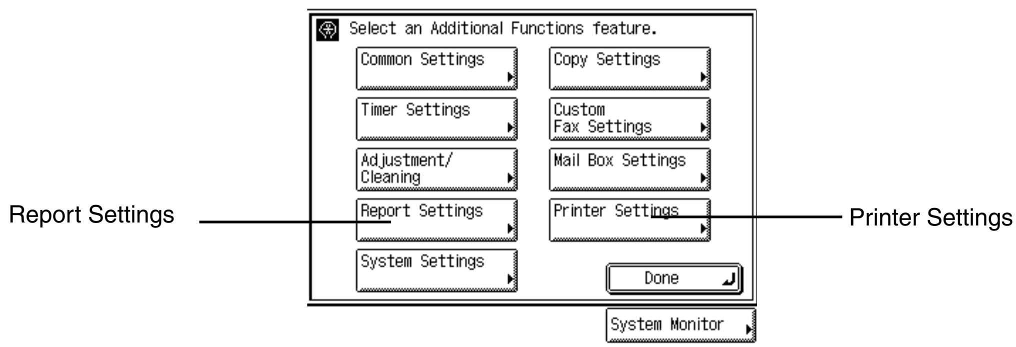
This machine makes effective use of memory in order to perform print operations efficiently. For example, as soon as the machine has scanned the original that you want to copy, it can immediately scan the next person’s original. You can also print from this machine, using a function other than the Copy function. In this machine, these operations take place in a complex way, so that not only copies, but also various kinds of prints may sometimes have to wait their turn before they can be output.
To avoid confusion when reading this manual, the term “printing” used throughout this manual is defined as set out below. There are some cases in which the scanning of an original when making a copy, and the process of making a print, are described separately.



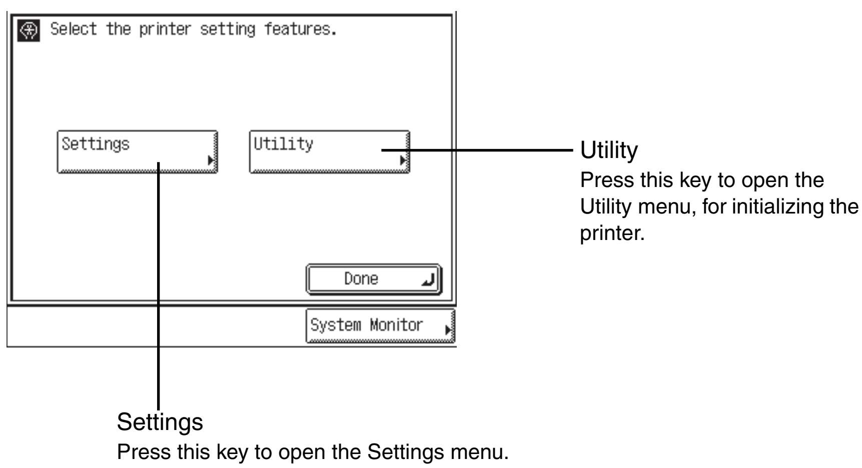
What the Machine Can Do

Additional Functions Screen

Press [Additional Functions] to open the Additional Functions screen. The Printer Settings or the Report Settings can be accessed from this screen.



In the Additional Functions screen, press [Printer Settings] to open the Custom Priting Settings menu.



Before You Start Using the Machine

1

CHAPTER

This chapter describes how to set up the printing environment from the touch panel display.

Menu Functions 1-2
What Are Menu Functions? 1-2
Accessing the Menus 1-3
Using the Printer Settings Menu 1-5
Using the Report Settings Menu 1-8

Menu Functions

This chapter describes the menu functions and how to access them with the touch panel display.

What Are Menu Functions?

The machine lets you specify the number of copies, the paper size, etc., to use when it receives a print job. Normally, however, these types of settings are specified by the application sending the print job, or by the printer driver.

However, you can specify many other settings other than the number of copies, the paper size, etc., which affect the printer function of the machine. These include some settings that cannot be specified from an application or the printer driver. These settings are referred to as "Menu Functions."

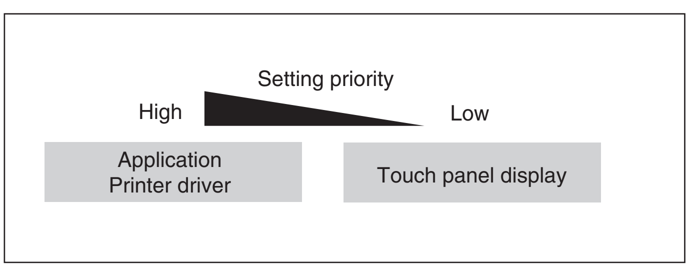
The menu functions are set using the keys on the touch panel display and are grouped together depending on the type of settings performed. This makes them easy to set.

NOTE

- The contents of the Printer Settings are stored in the nonvolatile memory of the machine. This means that the settings are stored even if the power to the machine is switched off - the settings will still be available when the power is switched on again.

Understanding the Printer Settings Priorities

When the same menu function setting can be specified by using the keys on the machine, or by specifying the setting in an application or the printer driver, the setting from the application or printer driver has priority. These settings will override the settings made on the machine.



- The Windows printer driver is included on the CD-ROM provided with the machine. For instructions on installing the printer driver, see the *Setup Guide*.

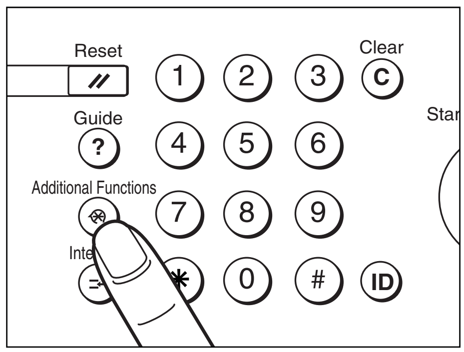
Accessing the Menus

To access the printer related menu functions, display the Printer Settings screen on the touch panel display and use the keys on the display to specify the settings.

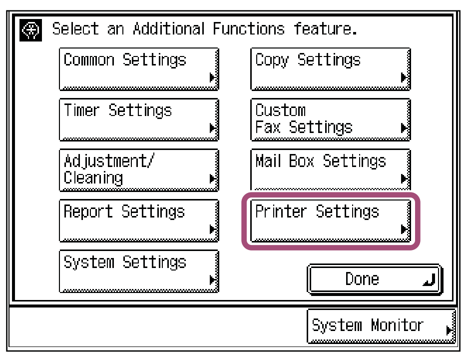
IMPORTANT

- You can access menus and modify settings while print jobs are waiting in the queue. However, any new settings will only affect print jobs sent to the queue after making the modifications.

1 **Press [Additional Functions].**



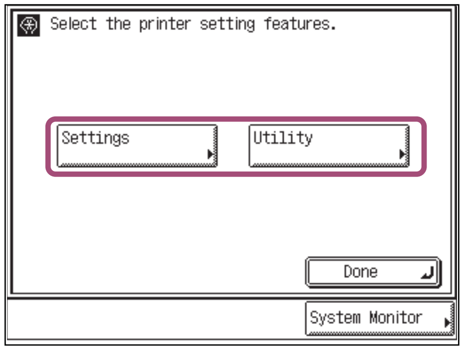
2 **Press [Printer Settings].**



3 Press [Settings] or [Utility] to access the corresponding menu.

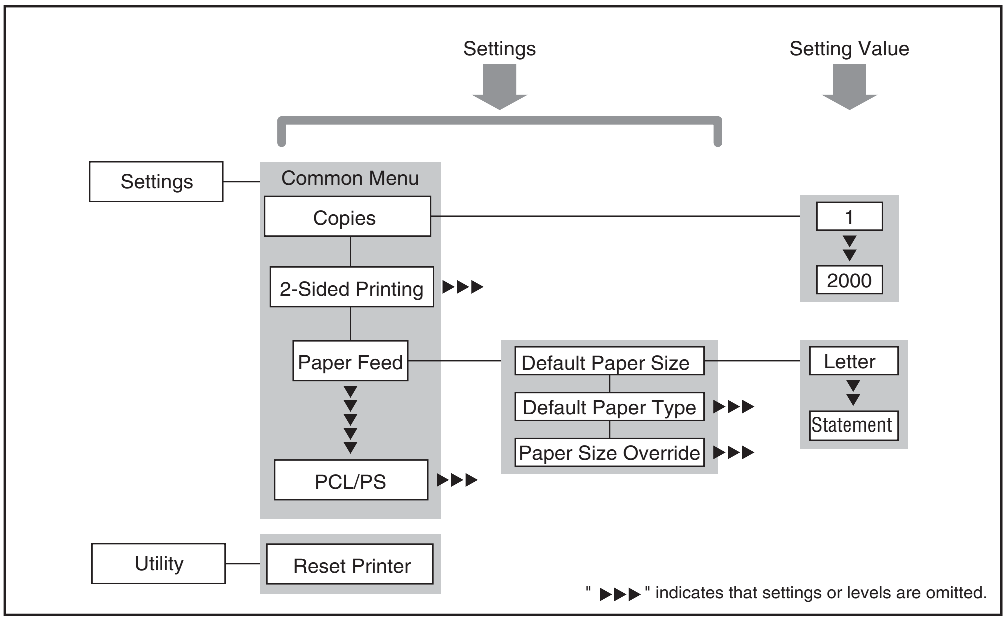
The Settings menu provides access to common settings, such as number of copies, error handling, and toner density.

The Utility menu provides access to the reset printer function.



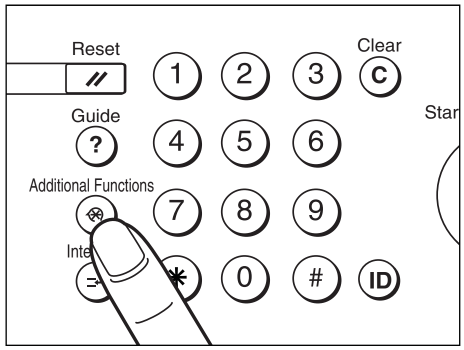
Using the Printer Settings Menu

The Printer Settings Menu enables you to access common features. Below is an abbreviated outline of the Printer Settings Menu structure. For a detailed description of all Printer Settings Menu options, see "Printer Settings Menu Functions and Operation," on p. 3-1 through p. 3-23.

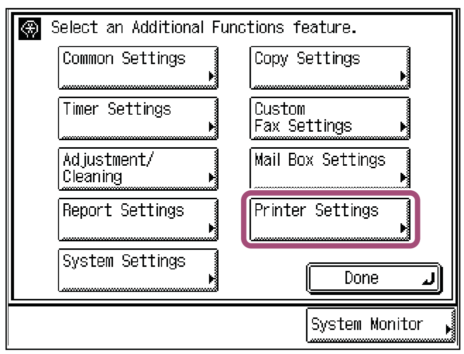


As an example, the following is the sequence of steps for setting the number of copies.

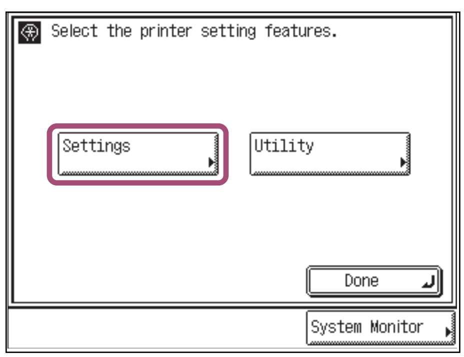
1 **Press** [Additional Functions] **.**



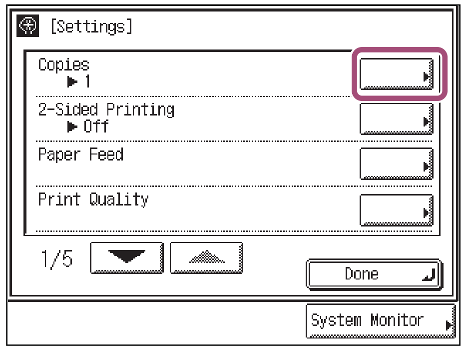
2 **Press [Printer Settings].**



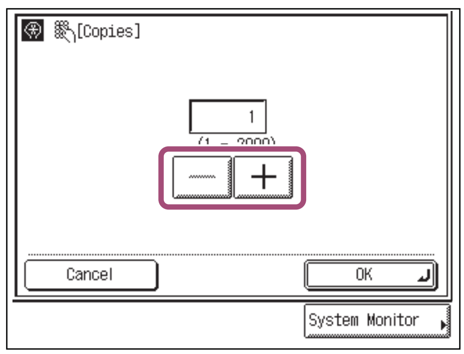
3 **Press [Settings].**



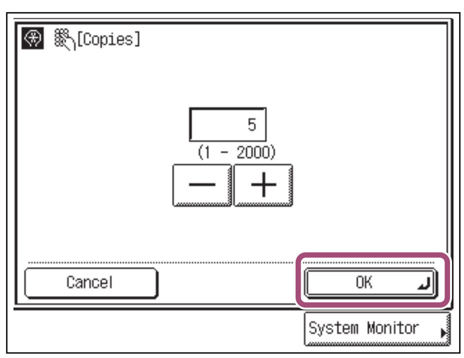
4 **Press [Copies].**



5 **Enter the number of copies using the numeric keys or [-] and [+].**

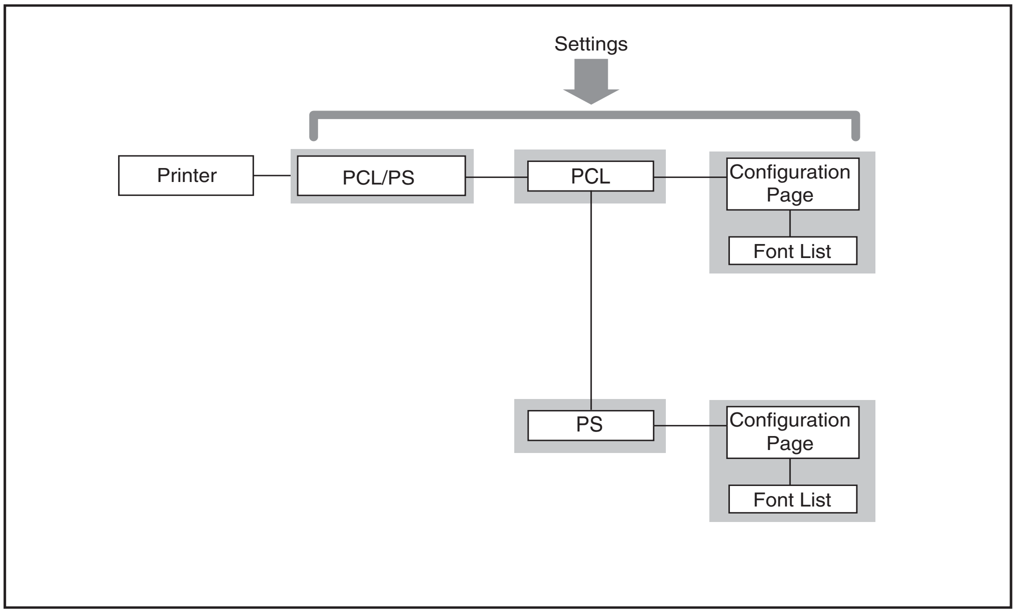


6 **Confirm the setting, then press [OK].**



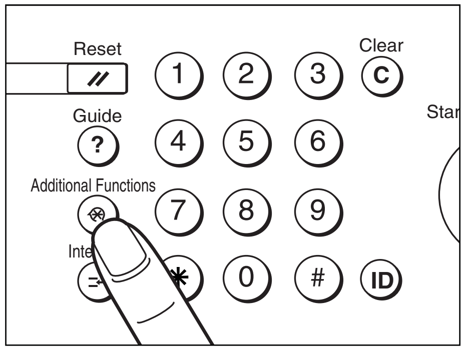
Using the Report Settings Menu

The Report Settings Menu enables you to access report print features such as checking the configuration. Below is an abbreviated outline of the Report Settings Menu structure. For a detailed description of Report Settings Menu options, see “Report Settings Menu,” on p. 4-1.

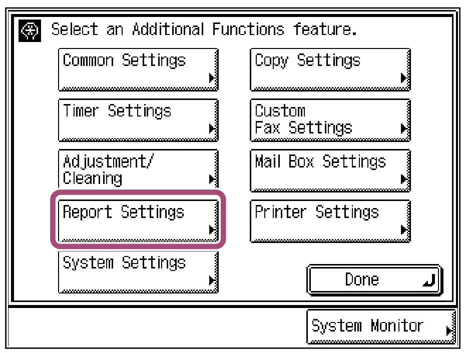


As an example, the following is the sequence of steps for printing a Configuration Page.

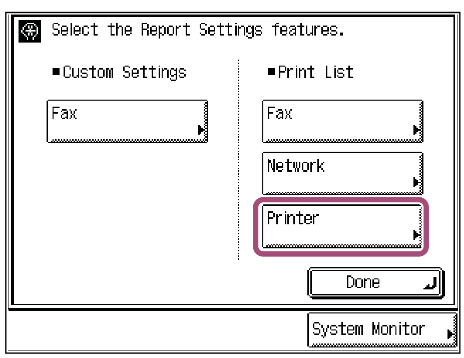
1 **Press** Additional Functions **.**



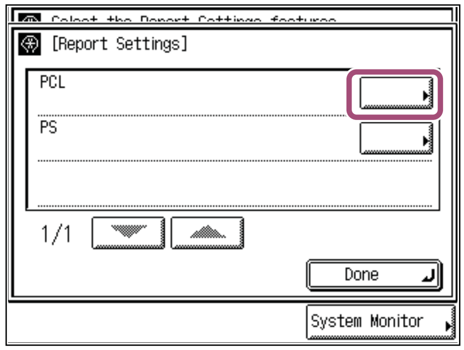
2 **Press [Report Settings].**



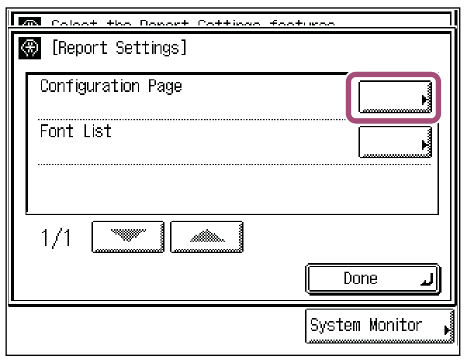
3 **Press [Printer].**



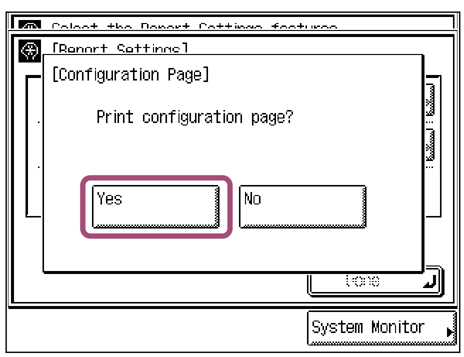
4 Press [PCL].



5 Press [Configuration Page].



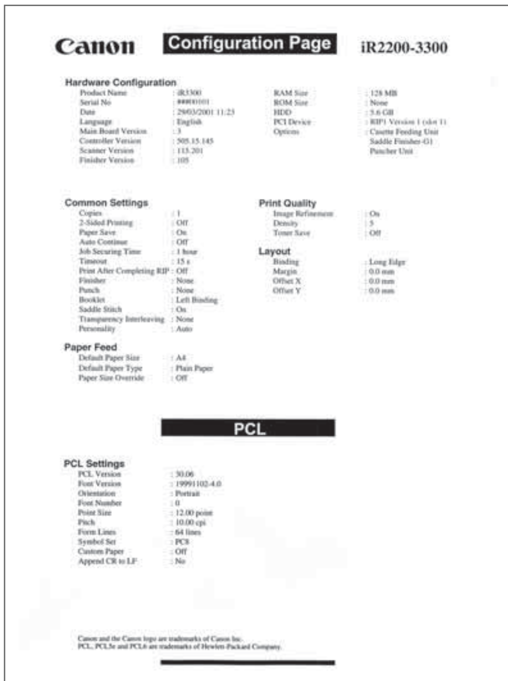
6 Press [Yes] to print the page.



Configuration Page Sample

If the printer function is working correctly, the Configuration Page will be similar to the sample below.

PCL Configuration Page



Canon Configuration Page iR2200-3300

Hardware Configuration

Product Name	: iR3300	RAM Size	: 128 MB
Serial No	: ####01001	ROM Size	: None
Date	: 29/03/2001 11:23	HDD	: 5.6 GB
Language	: English	PCI Device	: RIP1 Version 1 (slot 1)
Main Board Version	: 3	Options	: Casette Feeding Unit
Controller Version	: 505.15.145		Saddle Finisher-G1
Scanner Version	: 115.201		Puncher Unit
Finisher Version	: 105		

Common Settings

Copies	: 1
2-Sided Printing	: Off
Paper Save	: On
Auto Continue	: Off
Job Securing Time	: 1 hour
Timeout	: 15 s
Print After Completing RIP	: Off
Finisher	: None
Punch	: None
Booklet	: Left Binding
Saddle Stitch	: On
Transparency Interleaving	: None
Personality	: Auto

Print Quality

Image Refinement	: On
Density	: 5
Toner Save	: Off

Layout

Binding	: Long Edge
Margin	: 0.0 mm
Offset X	: 0.0 mm
Offset Y	: 0.0 mm

Paper Feed

Default Paper Size	: A4
Default Paper Type	: Plain Paper
Paper Size Override	: Off

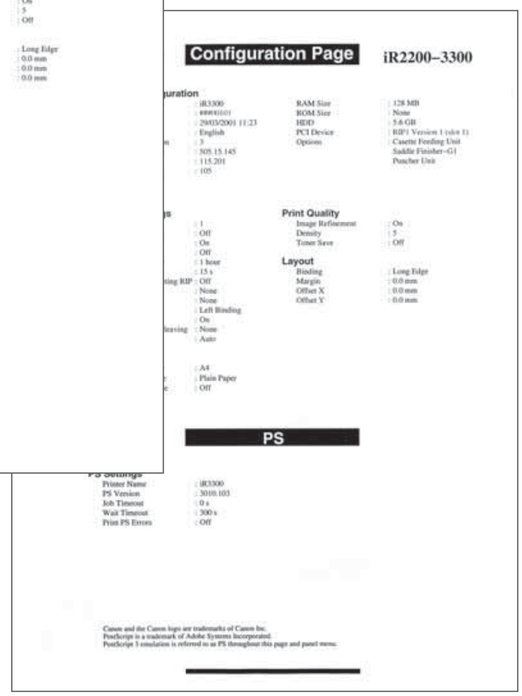
PCL

PCL Settings

PCL Version	: 30.06
Font Version	: 19991102-4.0
Orientation	: Portrait
Font Number	: 0
Point Size	: 12.00 point
Pitch	: 10.00 cpi
Form Lines	: 64 lines
Symbol Set	: PC8
Custom Paper	: Off
Append CR to LF	: No

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PCL, PCL5e and PCL6 are trademarks of Hewlett-Packard Company.

PS Configuration Page



Configuration Page iR2200-3300

PS

PS Settings

Printer Name	: iR3300
PS Version	: 3010.103
Job Timeout	: 0 s
Wait Timeout	: 300 s
Print PS Errors	: Off

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PostScript 3 emulation is referred to as PS throughout this page and panel menu.

1

Before You Start Using the Machine

Menu Functions and Operation

2

CHAPTER

This chapter describes outline of all functions and settings.

Printer Settings Menu Functions 2-2
Report Settings Menu Functions 2-5

Printer Settings Menu Functions

The following table lists all settings of the Printer Settings Menu.

NOTE

- The bold values indicate the default settings.

Setting	Available Options	Description
Settings Menu (See p.3-3.)		
Copies	**1** - 2000	Sets the number of copies to be printed.
2-Sided Printing	On, **Off**	Turns double-sided printing on or off.
Paper Feed		
Default Paper Size	**Letter**, Legal, A4, A3, A5, 11x17, Executive, Statement, Monarch, COM10, DL, ISO-B5, ISO-C5	Sets the default paper size to be used when printing from the machine.
Default Paper Type	**Plain Paper**, Transparency, Heavy Paper, Recycled, Color, Letterhead, Tracing Paper, Labels, Bond Paper, 3-Hole Punch, Envelope	Sets the default paper type to be used for printing.
Paper Size Override	On, **Off**	Turns Paper Size Override on or off.
Print Quality		
Image Refinement	**On**, Off	Turns Image Refinement on or off.
Density	1-**5**-9	Enables you to set the print density.
Toner Save	On, **Off**	Turns Toner Save on or off.
Layout		
Binding	**Long Edge**, Short Edge	Sets long edge or short edge binding for print jobs.
Margin	-1.20 - **0.0** - +1.20 inch	Sets the margin in inches.
Offset X	-2.00 - **0.0** - +2.00 inch	Sets the X Offset.
Offset Y	-2.00 - **0.0** - +2.00 inch	Sets the Y Offset.

Setting	Available Options	Description
Auto Continue	On, **Off**	Turns the Auto Continue function on or off. When Auto Continue is enabled, the machine automatically continues if an error skip error ocurrs.
Job Securing Time	**1 hour**, 2 hours, 3 hours, 6 hours, 12 hours, 24 hours	Determines how long a secured job remains in the queue before being canceled.
Timeout	Timeout (5 - **15** - 300 s), Off	Determines the timeout interval in seconds.
Print After Completing RIP	On, **Off**	Selects whether to print the first page after all the pages in job have been rastorized.
Finisher	**None**, Rotate Collating, Rotate Grouping, Offset Collating, Offset Grouping, Staple Sort Staple position: **Corner (Upper-L)**, Double (Top), Corner (Upper-R), Double (Right), Corner (Lower-R), Double (Bottom), Corner (Lower-L), Double (Left)	Selects the finisher or shift tray, if installed, and selects the setting for collating and staple sort.
Punch	**None**, Top, Bottom, Left, Right	Sets the punch settings for the puncher unit, if installed.
Booklet	On, **Off**	Turns booklet binding on or off.
Saddle Stitch	On, **Off**	Turns saddle stitching on or off.
Transparency Interleaving	**None**, Blank, Printed	Enables you to determine the settings for Transparency Interleaving.
Personality	**Auto**, PS, PCL	Enables you to determine the Personality setting.
Initialize		Enables you to initialize the settings.
PCL/PS Settings (See p. 3-20.)		
PCL		
Orientation	**Portrait**, Landscape	Sets the paper orientation.
Font Number	**0** - 120	Sets the font number.
Point Size	4.00 - **12.00** - 999.75 point	Sets the default point size.
Pitch	0.44 - **10.00** - 99.99 cpi	Sets the default pitch.
Form Lines	5 - **60** - 128 lines	Sets the number of lines on a page.

Setting	Available Options	Description
Symbol Set	DESKTOP, ISO4, ISO6, ISO11, ISO15, ISO17, ISO21, ISO60, ISO69, ISOL1, ISOL2, ISOL5, ISOL6, LEGAL, MATH8, MCTEXT, MSPUBL, PC775, **PC8**, PC850, PC852, PC8DN, PC8TK, PC1004, PIFONT, PSMATH, PSTEXT, ROMAN8, VNINTL, VNMATH, VNUS, WIN30, WINBALT, WINL1, WINL2, WINL5	Sets the symbol set.
Custom Paper	On, **Off**	Toggles custom paper on or off.
Unit of Measure	Millimeters, **Inches**	Sets the unit of measurement for specifying the custom paper size. * This setting is only displayed if Custom Paper is set to on.
X Dimension	5.44 - **17.00** inches	Sets the X dimension of the custom paper. * This setting is only displayed if Custom Paper is set to on.
Y Dimension	3.94 - **11.69** inches	Sets the Y dimension of the custom paper. * This setting is only displayed if Custom Paper is set to on.
Append CR to LF	Yes, **No**	Append a carriage return to each line feed encountered.
PS		
Job Timeout	**0** - 3600 s	Sets the timeout setting in seconds.
Wait Timeout	0 - **300** - 3600 s	Determines how long a job waits, in seconds, before it times out.
Print PS Errors	On, **Off**	Turns printing of PS errors on or off.

Utility Menu (See p. 3-23.)	
Reset Printer	Enables you to reset the printer function and cancel jobs in the print queue or in the machine's memory.

Report Settings Menu Functions

The following table lists functions of the Report Settings Menu.

Setting	Description
Printer Menu (See p. 4-1.)	
PCL	
Configuration Page	Enables you to print the PCL Configuration Page.
Font List	Enables you to print the PCL Font List.
PS	
Configuration Page	Enables you to print the configuration page.
Font List	Enables you to print the font list.

Printer Settings Menu Functions and Operation

3
CHAPTER

This chapter describes how to use the Printer Settings Menu and its submenus.

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Settings Menu

NOTE
- The bold values indicate the default settings.

Copies	**1**-2000
	Enables you to specify the number of copies printed. The default setting is 1, but you can specify up to 2000 copies.
2-Sided Printing	On, **Off**
	This parameter selects one-sided or two-sided printing. When 2-Sided Printing is specified, the document is printed on both sides of the paper. NOTE • Two-sided printing can use either the paper drawer or the stack bypass tray, in sizes of 11x17, Legal, Letter, Letter-R, Statement-R, Executive, A3, JIS-B4, A4, A4R, JIS-B5, B5R and A5R. • When printing on letterhead paper, or paper with a logo etc., such as a cover sheet, please note the following points. - If the paper is fed from an internal paper drawer, the print surface of the first page should be face-down. - If the paper is fed from the stack bypass or the optional paper deck, the print surface of the first page should be face-up.

Paper Feed	
Default Paper Size	**Letter**, Legal, A4, A3, A5, 11x17, Executive, Statement, Monarch, COM10, DL, ISO-B5, ISO-C5
	This parameter defines the default paper size used when the paper size cannot be set within the application software, when no paper source is specified.

IMPORTANT

- If you are printing from an OS that does not have a printer driver for the machine (MS-DOS, UNIX, etc.) make sure that the paper loaded in the paper drawer matches the paper size specified in this setting. If the paper size specified in this setting is not available, an error message will be displayed when the machine tries to print the job and the machine will stop. In addition, if a paper source has not been selected through the application, the machine will automatically select default print settings for the paper size and type. See "Setting a Paper Drawer for Auto Paper Selection/Auto Drawer Switching," in the Reference Guide.

NOTE

- To avoid the possibility of your job being printed on the wrong size paper, always make sure that Executive-size paper is loaded in the Stack Bypass before printing an Executive-size job. When the Manual Paper Select screen is displayed, press [Free Size].

Default Paper Type	**Plain Paper**, Transparency, Heavy Paper, Recycled, Color, Letterhead, Tracing Paper, Labels, Bond Paper, 3-Hole Punch, Envelope

This parameter sets the default paper type to be used for print job. This printer has internally defined optimal print modes for each specified paper type.

IMPORTANT

- If you are printing from an OS that does not have a printer driver for the machine (MS-DOS, UNIX, etc.) make sure that the paper loaded in the paper drawer matches the paper type specified in this setting. If the paper type specified in this setting is not available, an error message will be displayed when the machine tries to print the job and the machine will stop. In addition, if a paper source has not been selected through the application, the machine will automatically select default print settings for the paper type and size. See "Setting a Paper Drawer for Auto Paper Selection/Auto Drawer Switching," in the Reference Guide.

NOTE

- Use the following figures as a guideline to decide whether paper should be specified as Plain Paper or Heavy Paper.
  - Plain Paper: 17 lb - 24 lb bond (64 g/m^2 - 90 g/m^2)
  - Heavy Paper: Paper heavier than Plain Paper - 110 lb index (200 g/m^2)
- Canon transparency film is recommended for printing on transparencies.
- Canon label paper is recommended for printing on labels.
- Transparency, Tracing Paper, and Labels cannot be printed using two-sided printing.

Paper Size Override	On, **Off**
	When paper of the size that is set in the printer driver has not been loaded in the paper drawer, the paper that is printed will be changed to the following sizes.

Printer driver setting		Paper that will be printed on
Letter	→	A4
A4	→	Letter
11x17	→	A3
A3	→	11x17

If [On] is selected, the paper size will be changed.
If [Off] is selected, the paper supply message will be displayed and the paper size will not be changed.

Print Quality

Image Refinement	**On**, Off
	This setting smoothes the jagged outlines of characters and graphics. If [On] is selected, smoothing is performed before printing. If [Off] is selected, jobs are printed without being smoothed.

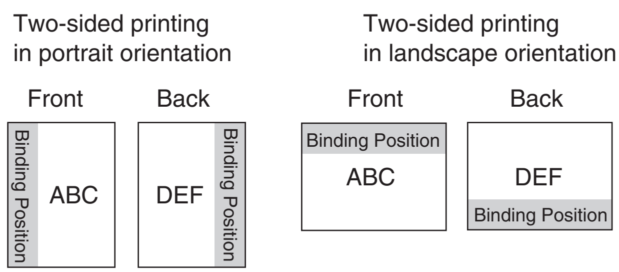
NOTE
- The results of image refinement might be different depending on the types of characters and graphics you want to print.

Density	1 - **5** - 9
	This setting adjusts the print density. Pressing [Dark] makes the print image darker, pressing [Light] makes the image lighter. You can adjust the setting in 9 levels, with level 5 (middle level) being the factory setting.
Toner Save	On, **Off**
	This setting determines whether the Toner Save is enabled. Toner Save uses less toner to print documents and may result in longer toner life.

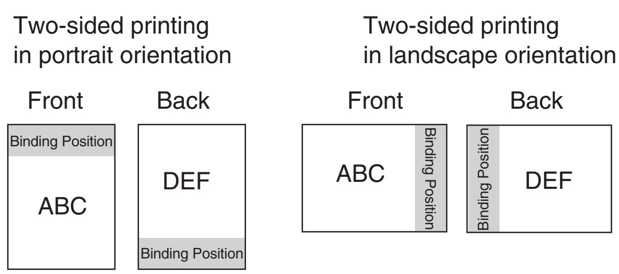
NOTE
- If [On] is selected for Toner Save, very light or finely detailed images may not be printed clearly.

Layout	
Binding	**Long Edge**, Short Edge

This parameter determines whether the binding position is along the long edge or the short edge of the paper. When binding for 2-sided printing, the image orientation is automatically adjusted for correct layout.
When the binding position is on the long edge of the paper:



When the binding position is on the short edge of the paper:

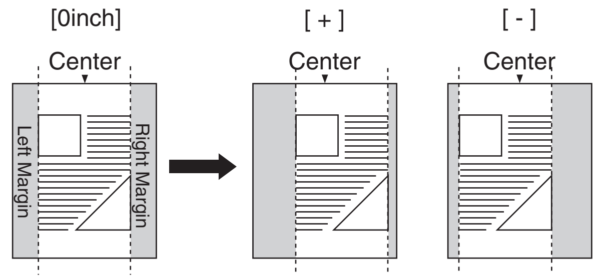


NOTE
- You cannot create a binding margin with this setting alone. Use this setting in combination with the Margin setting to create a binding margin.
- For 2-Sided Printing, the orientation of the back image may be changed by this setting.

Margin	-1.20 - **0.0** - +1.20 inch (in increments of 0.01 inch)

This setting sets the page margin in inch. The settings can be set between -1.20 inch (-30.0 mm) to +1.20 inch (+30.0 mm) in increments of 0.01 inch (0.5 mm).

Use [▲] to increase the width of the inside margin. Use [▼] to increase the size of the outside margin.



You can specify the edge along which the margin will be created in the Binding setting (previous setting). To create a margin along one of the edges of the paper, use this setting in combination with the Binding setting.

IMPORTANT

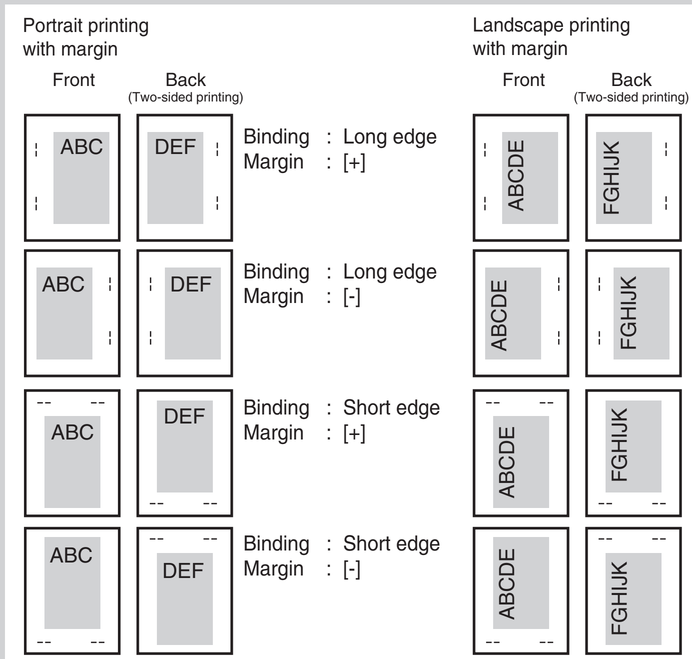
- If this setting moves the image outside the printable area, part of the image may be cut off.

NOTE

- If this setting is used in combination with the Offset X/ Offset Y setting, the two settings are added together.
- Pressing [▲] increases the setting value by 0.01 inch (0.5 mm) each time the key is pressed. Pressing [▼] decreases the value by 0.01 inch (0.5 mm) each time. Holding down either [▲] or [▼] continuously speeds up the value alteration.

Binding and Margin Settings

Refer to the figures below to set binding and margins.



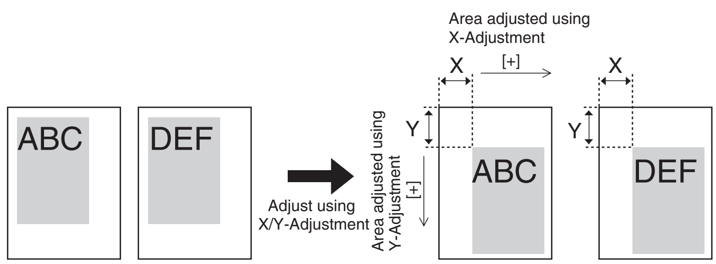
Set the paper orientation in the application you are using.

Offset X Offset Y	-2.00 - **0.0** - +2.00 inch (in increments of 0.01 inch)

This setting sets the offset position in inch. The settings can be set between -2.00 inch (-50.0 mm) to +2.00 inch (+50.0 mm) in increments of 0.01 inch (0.5 mm).
The print position is adjusted in the vertical or horizontal direction only to the value specified in the setting value.
You can increase or decrease the setting in increments of 0.01 inch (0.5 mm) to adjust the print position as described below.

Offset X: Increasing the setting value moves the image in the X direction on the paper. Decreasing the setting value moves the image in the X direction on the paper.

Offset Y: Increasing the setting value moves the image in the Y direction on the paper. Decreasing the setting value moves the image in the Y direction on the paper.



IMPORTANT

- Please note that if the print position is adjusted to place print data outside the valid print area, the portion outside the valid print area will not be printed.

NOTE

- Pressing [▲] increases the setting value by 0.01 inch (0.5 mm) each time the key is pressed. Pressing [▼] decreases the value by 0.01 inch (0.5 mm) each time. Holding down either [▲] or [▼] continuously speeds up the value alteration.

Auto Continue	On, **Off**

You can set whether or not this function is used automatically to temporarily clear an error and continue printing (Error skip) when an error occurs.
When [Off] has been selected, you must use the touch panel display to perform an error skip.
When [On] has been selected, an error skip is performed automatically.

NOTE

- To perform an error skip, press [Print] on the System Monitor screen, select the job where the error has occurred, then press [Details] and [Error Skip].
- Error skip only temporarily clears an error, so there is the possibility that the data may not be printed correctly.
- For information on types of errors that can be temporarily cleared with Auto Continue, see "You cannot print the last page," on p. 5-6.
- When Auto Continue has been set to [On], errors will be automatically skipped (this is valid even if multiple errors have occurred).

Job Securing Time	**1 hour**, 2 hours, 3 hours, 6 hours, 12 hours, 24 hours

When a secured print job is sent to the machine, it is stored on the machine's hard disk, and a password must be entered before the job can be printed. This setting specifies how long the job will be stored before it is automatically canceled.

NOTE

- Even if the time period specified with this setting has not elapsed, the print job data will be deleted if the main power to the machine is switched off.
- The password is set from the printer driver.

Timeout	Timeout (5 - **15** - 300 s), Off
	When the machine is set to switch between printer modes, the machine detects the control commands and starts printing in the appropriate mode. After all the data has been received and the end of the data is detected, the print mode stops. This processing of print data is called a job. If the data for a job does not end, the machine will not start the next job even if it receives other print commands. In cases like this, use the Timeout setting to force jobs to finish if no data is received during the set period of time. When Timeout is On, if print data is still remaining in the machine because of being unable to send a form feed command, the paper can be fed automatically. When the set time is finished, the job will automatically be finished. When Timeout is Off, jobs will not end automatically. **IMPORTANT** • When this function is set so that a job will timeout, the machine may end a print job before all the data has been received if it takes a long time for the PC to send the data. If this occurs, adjust the length of the Timeout setting. • If [Off] is selected, you will not be able to make copies until print jobs that use the staple sort, punch, and booklet settings have been completed. • If this setting is set to more than 60 seconds, the machine will cancel a job, due to a timeout, if it does not receive an end-of-job command causing the job not to print correctly. • This setting specifies the timeout setting for jobs received from the parallel port interface. If [Off] is selected the machine will not be able to receive print jobs from the network until jobs received from the parallel port interface have been completed. **NOTE** • When a job is being processed, the Processing/Data lamp on the control panel lights.
Print After Completing RIP	On, **Off**
	Sets whether to use the Print after completing RIP function or not. If Print after completing RIP is selected, the first page is printed after all the pages in the job have been processed. Although it may take longer to print the first page, the remaining pages in the job will be printed more quickly. This is useful when several people are using the machine since the printing time for a print job is reduced, or when using the other functions, such as the Copy function.

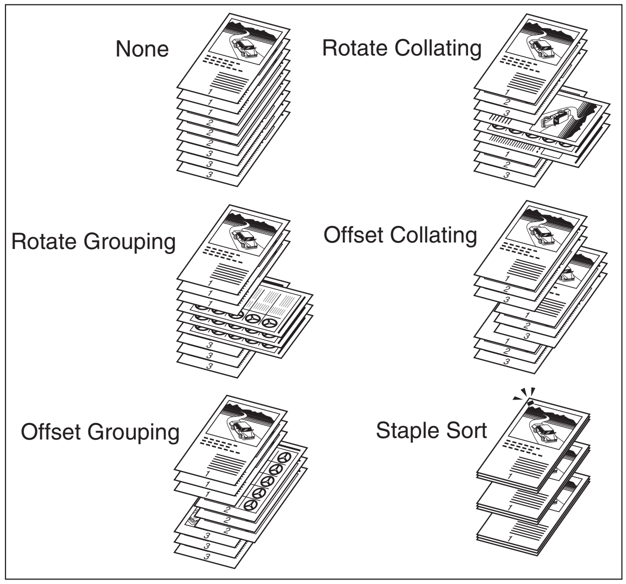
Finisher	**None**, Rotate Collating, Rotate Grouping, Offset Collating, Offset Grouping, Staple Sort Staple Position — Corner (Upper-L), Double (Top) Corner (Upper-R), Double (Right) Corner (Lower-R), Double (Bottom) Corner (Lower-L), Double (Left)

Some of the above options require specific delivery trays and may not be available unless appropriate delivery trays are installed:

	No options	Saddle Finisher-G1	Finisher-J1
Rotate Collating	Yes	No	No
Rotate Grouping	Yes	No	No
Offset Collating	No	Yes	Yes
Offset Grouping	No	Yes	Yes
Staple Sort	No	Yes	Yes

You can choose from several features when collating printed matter.
None: This setting prints all copies of the same page before printing the next page.
Rotate Collating: This setting prints all pages of each copy (collating), and rotates every other complete copy every other complete copy 90 degrees to indicate where each copy starts.
Rotate Grouping: This setting prints all copies of the same page before printing the next page. It rotates every other complete set of pages to indicate where each new set starts.
Offset Collating: This setting prints all pages of each copy (collating), and offsets every other complete copy to indicate where each copy starts.
Offset Grouping: This setting prints all copies of the same page before printing the next page. It offsets every other complete set of pages to indicate where each new set starts.
Staple Sort: This setting prints all pages of each copy (collating) and prepares them for stapling according to the option selected for Staple Sort (the following examples).

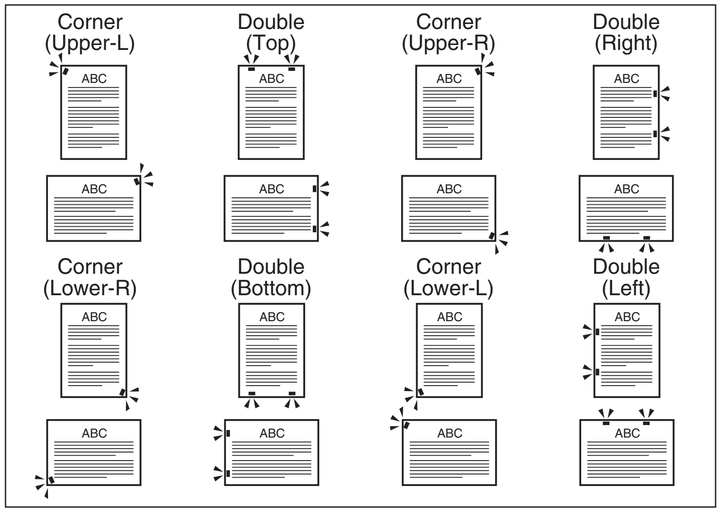
Examples of each Finisher option when printing three copies of a three-page document:



NOTE

- Rotate Collating and Rotate Grouping are available for selection if the paper size is Letter, Statement, A4, JIS-B5 or A5, and if the printer has paper of the selected size loaded in both orientations (e.g. Letter and Letter-R or A4 and A4R).
- When Rotate Collating or Rotate Grouping is selected, part of the printer image may be cut off when the image is rotated.
- Offset Grouping and Offset Collating are available for selection if the paper size is 11x17, Legal, Letter, Letter-R, Statement, A3, B4, A4, A4R, JIS-B5, B5R or A5.

When you select [Staple Sort], you can select the stapling position.



NOTE

- When stapling paper in landscape orientation, the image orientation and the staple position may not match.
- Staple Sort is available for selection if the paper size is 11x17, Legal, Letter, Letter-R, Statement, A3, B4, A4, A4R, JIS-B5 or Executive. Available staple locations depend on paper size and image orientation, as shown.

Saddle Finisher-G1

Staple Position / Paper Size	Corner (Upper-L)	Double (Top)	Corner (Upper-R)	Double (Right)	Corner (Lower-R)	Double (Bottom)	Corner (Lower-L)	Double (Left)	Capacity (Sheets)
11x17	Yes	Yes	Yes	No	Yes	Yes	Yes	No	25
Legal	Yes	Yes	Yes	No	Yes	Yes	No	No	25
Letter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	50
Letter-R	Yes	Yes	Yes*	No	Yes	Yes	Yes*	No	50
Executive	Yes	No	Yes	Yes	Yes	No	Yes	Yes	50
A3	Yes	Yes	Yes	No	Yes	Yes	Yes	No	25
B4	Yes	Yes	Yes	No	Yes	Yes	Yes	No	25
A4	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	50
A4R	Yes	Yes	Yes*	No	No	Yes	Yes*	No	50
JIS-B5	No	No	Yes	Yes	No	No	Yes	Yes	50

* *Will be stapled parallel to the edge of the paper.*

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Printer Settings Menu Functions and Operation

Finisher-J1

Staple Position / Paper Size	Corner (Upper-L)	Corner (Upper-R)	Corner (Lower-R)	Corner (Lower-L)	Capacity (Sheets)
11x17	No	Yes	No	Yes	15
Legal	No	Yes	No	Yes	20
Letter	Yes	No	Yes	No	30
Letter-R	No	Yes*	No	Yes*	30
Executive	Yes	No	Yes	No	30
A3	No	Yes	No	Yes	15
B4	No	Yes	No	Yes	20
A4	Yes	No	Yes	No	30
A4R	No	Yes*	No	Yes*	30
JIS-B5	Yes	No	Yes	No	30

- The maximum number of sheets that can be stapled is 15 for A3 and 11x17, 20 for B4 and Legal, 30 for A4, A4R, JIS-B5, Letter, Letter R and Executive. If the number of sheets is greater than this, they will not be stapled.
- Make sure to select compatible settings when using Staple Sort and Punch simultaneously. If conflicting settings are selected, such as the staple setting for the right side of the paper and the punch setting for the left, the printer will use neither Staple Sort nor Punch.

Punch	**None**, Top, Bottom, Left, Right

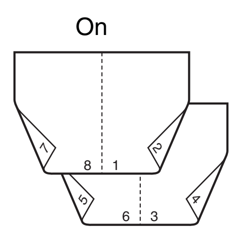
This setting enables you to specify the desired paper edge for holes to be punched for binding (two or three holes).

NOTE

- This function can only be selected if a Saddle Finisher-G1 is installed with a Puncher Unit-K1.
- Acceptable paper sizes for this option are 11x17, Legal, Letter, Letter-R, A3 or A4.
- Make sure to select compatible settings when using Staple Sort and Punch simultaneously. If conflicting settings are selected, such as the staple setting for the right side of the paper and the punch setting for the left, the printer will use neither Staple Sort nor Punch.
- The machine automatically detects the size of the paper and punches two or three holes accordingly. (Legal and Letter-R papers are punched with two holes.)

Booklet	On, **Off**

Enables you to prepare the printout for binding as a booklet. Unlike a book, pages in a booklet are bound on the same side. If [On] is selected, the pages are bound on the left side.



NOTE

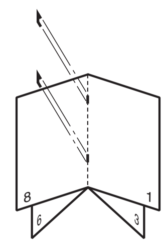
- This function is available for selection if the image page size is Letter-R Statement, B4, A4 or A5. Letter-R pages are printed on 11x17 paper, and Statement pages on Letter paper, A4 pages on A3 paper, A5 pages on A4R paper.
- If the pages are not all the same size, this function will not work.

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Printer Settings Menu Functions and Operation

Saddle Stitch	On, **Off**

Saddle Stitch enables the machine to bind a finished print job by stapling and folding the pages of a booklet in the center. The Saddle Stitch function is valid only when booklet print is selected. This can be selected independently from the driver.



NOTE

- Saddle Stitch can only be performed if the Saddle Finisher-G1 is installed.
- Saddle Stitch is not available if [Off] has been selected for [Booklet].
- If the print job contains only one sheet of paper, the paper will be folded but not stapled.
- The maximum number of sheets that can be saddle stitched is 10. If the number of sheets is greater than this, they will not be saddle stitched.
- The number of copies of a saddle stitched booklet that can be made at one time is limited as shown below:

Number of sheets in each booklet	Max. number of copies that can be printed
1 - 10	10

Transparency Interleaving	**None**, Blank, Printed
	When printing on transparencies you can use this setting to output a sheet of paper after each transparency. The paper can be blank, or it can be a paper copy of the transparency. If [None] is selected, no sheets are interleaved with the transparencies. If [Blank] is selected, a blank sheet of paper is inserted between each transparency. If [Printed] is selected, a printed paper from the print job is inserted between each transparency. IMPORTANT • The transparencies should be fed from the Stack Bypass. The paper will be fed from a paper drawer. NOTE • If [Printed] is selected, the paper printouts are included in the [Copies] count.
Personality	**Auto**, PS, PCL
	This selection enables the machine to process data received from the host computer in the specified data format. Setting the Personality to Auto causes the machine to determine the type of data received from the host on a job-by-job basis. When printing from applications on a computer, we recommended that you use the Auto setting. NOTE • If you find that the printer does not correctly switch to the appropriate personality when Personality is set to Auto, change the setting manually to match the data you are sending from the host computer.
Initialize	
	The menu settings can be reset to the factory defaults by initializing the printer settings. When you select [Initialize], the confirmation message “Is it OK to initialize the settings?” is displayed. If you select [Yes], the settings are initialized. If you select [No], the settings are not initialized. IMPORTANT • Do not turn off the printer while the settings are being initialized, as this may damage the machine’s memory.

PCL/PS Settings

This section explains the different menu settings available for PCL and PS, respectively.

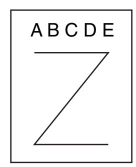
PCL

Orientation

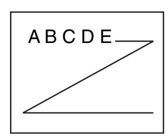
Portrait, Landscape

Enables you to set the paper orientation.

If [Portrait] is selected, the print image is printed in portrait orientation regardless of the orientation of the paper in the paper drawers.



If [Landscape] is selected, the print image is printed in landscape orientation regardless of the orientation of the paper in the paper drawers.



Font Number

0 - 120

You can set the default font typeface for this printer function using the corresponding font numbers. Valid font numbers are from 0 to 120.

Point Size

4.00 - **12.00** - 999.75 point (in increments of 0.25 point)

When the number selected in Font Number is that of a proportionally spaced scalable font, this option appears in the PCL menu. It enables you to specify a point size for the default font. The point size can be adjusted in increments of 0.25 pts.

Pitch

0.44 - **10.00** - 99.99 cpi (in increments of 0.01 cpi)

When the number selected in Font Number is that of a fixed pitch scalable font, Pitch appears in the PCL menu. It enables you to specify the pitch for the default font. The pitch can be adjusted in increments of 0.01 cpi.

Form Lines	5 - **60** - 128 lines
	Enables you to specify the number of lines to be printed on a page. You can specify from 5 to 128 lines.
Symbol Set	DESKTOP, ISO4, ISO6, ISO11, ISO15, ISO17, ISO21, ISO60, ISO69, ISOL1, ISOL2, ISOL5, ISOL6, LEGAL, MATH8, MCTEXT, MSPUBL, PC775, **PC8**, PC850, PC852, PC8DN, PC8TK, PC1004, PIFONT, PSMATH, PSTEXT, ROMAN8, VNINTL, VNMATH, VNUS, WIN30, WINBALT, WINL1, WINL2, WINL5
	Enables you to select the symbol set most suited to the needs of the host computer.
Custom Paper	On, **Off**
	This setting enables you to specify a custom paper size. When [On] is selected, you can enter a custom size using the following settings. NOTE • You can only select the custom paper size entered with these settings from the printer driver.
Unit of Measure	Millimeters, **inches**
	Enables you to specify the unit of measurement you would like to use to specify your custom paper size. NOTE • This function is not available if the Custom Paper option is set to [Off].
X Dimension	5.44 - **17.00** inches
	Enables you to specify the X dimension of the custom paper. The X dimension can be adjusted in increments of 0.01". This function can be very useful when part of the printed image is cut off. By increasing the dimension some of the missing text may be correctly printed. Make sure you do not increase the X dimension beyond the actual size of the paper you are using for printing. NOTE • This function is not available if the Custom Paper option is set to [Off].

Y Dimension	3.94 - **11.69** inches
	Enables you to specify the Y dimension of the custom paper. The Y dimension can be adjusted in increments of 0.01". This function can be very useful when part of the printed image is cut off. By increasing the dimension some of the missing text may be correctly printed. Make sure you do not increase the X dimension beyond the actual size of the paper you are using for printing. NOTE • This function is not available if the Custom Paper option is set to Off.
Append CR to LF	Yes, **No**
	This option allows the user to append the required carriage return to each line feed. Select Yes to append a carriage return to each line feed encountered in backward-compatible PCL jobs (pure text, no job control).
PS	
Job Timeout	**0** - 3600 s
	Enables you to specify the amount of time before a job times out. If data has not finished within the set time limit, the job automatically cancels.
Wait Timeout	0 - **300** - 3600 s
	Enables you to specify the amount of time a job will wait for data before it times out. If data is not received within the set time limit, the job automatically cancels.
Print PS Errors	On, **Off**
	This setting determines whether an error page is printed when an error is encountered.

Utility Menu

This section explains the Utility Menu function.

Reset Printer

If, for whatever reason, you want to clear all print jobs in progress as well as data that has been received in the memory, you must reset the printer function. Resetting deletes print jobs in the machine's memory and print data that have been received by all interfaces.

NOTE

- If the machine is being used on a network, please note that resetting the printer function may affect data being received from other users.
- When you reset the printer function, data for print jobs that have already bean received, or are received while the printer function is being reset, may be deleted. However, in some cases the data is not deleted from the machine's memory. Even if the data has not been deleted, the print job may not print correctly. Canon recommends that you delete the data and print the job again.

Report Settings Menu

4

CHAPTER

This chapter describes how to use the Report Settings Menu to check the configuration of the print function or print a font list.

PCL Menu 4-2
PS Menu 4-3

PCL Menu

This section explains the report functions available for PCL.

Configuration Page

Details of RAM capacity, settings in the printer's menus, etc. are printed. When you select Configuration Page, the confirmation message "Print configuration page?" is displayed. If you select [Yes], the configuration page will be printed, and if you select [No], it will not be printed.

Font List

ID numbers, names and samples of fonts held by the printer will be printed. When you select Font List, the confirmation message "Print font list?" is displayed. If you select [Yes], the font list will be printed, and if you select [No], it will not be printed.

PS Menu

This section explains the report functions available for PS.

Configuration Page	Details of RAM capacity, settings in the printer's menus, etc. are printed. When you select Configuration Page, the confirmation message "Print configuration page?" is displayed. If you select [Yes], the configuration page will be printed, and if you select [No], it will not be printed.
Font List	ID numbers, names and samples of fonts held by the printer will be printed. When you select Font List, the confirmation message "Print font list?" is displayed. If you select [Yes], the font list will be printed, and if you select [No], it will not be printed.

Troubleshooting

5

CHAPTER

This chapter explains how to solve printing problems and the steps to take if printing fails.

Responding to Error Messages 5-2

Resetting the Machine After a Service Call Message 5-2

When a Message Is Displayed 5-3

Printing Problems 5-5

Printer Trouble 5-5

Printing Problems 5-6

Print Quality Problems 5-8

Responding to Error Messages

When the status indicator is orange, printing is not possible. If this happens during printing, the print operation stops. Read the displayed error message to determine the appropriate actions necessary to correct the problem.

This section describes how to handle error messages that appear on the touch panel display. The two types of error messages are:

- Service Call Messages
- Error Messages

NOTE

- Other messages that may appear indicate the current condition of the machine.

Resetting the Machine After a Service Call Message

If a Service Call message occurs (Exxx-xxxx, where x represents a number), use the following procedure to clear the message.

1 Press (Additional Functions).

2 Press [Printer Settings].

When a Service Call error occurs, the normal Printer Settings screen does not appear and only the Reset Printer screen appears.

3 Press [Reset Printer].

IMPORTANT

- If the Service Call error message still appears after you have performed this procedure, make a note of the number of the message and contact a service representative. When you contact the service representative, tell them the number of the message and the conditions under which the error occurs.

When a Message Is Displayed

If the printer is unable to print for some reason, the error indicator lights up and a message indicating the cause of the problem is displayed on the touch panel display. When these messages are displayed, take the following action to solve the problem.

NOTE

- When a message indicating another problem occurs at the same time as the first error message, a warning message will not be displayed.
- When the message is shown with the "**Error Skip**" mark, you can bypass the error and continue printing by pressing [Error skip]. However if you do this, print data may be lost or the data may not be printed correctly. If you want to cancel the procedure, cancel the print job to remove the cause of the problem, and print the data again.
- To perform an error skip, press [Print] on the System Monitor screen, select the job containing the error, then press [Details] and [Error Skip].
- To cancel a print job, press [Print] on the System Monitor screen, select the job containing the error, then press [Cancel]. (See "Canceling a Job," in the *Reference Guide*.)

PDL Offending Command

Cause The printer was unable to understand a print command it received.

Solution Try resending the PS job. If the problem persists, verify the PS options in the application and print again.

E677-5801 PDL Accelerator

Service Call

Cause An internal error has occurred for the printer function.

Solution Perform a printer reset to try to initialize the function again. If this error persists, contact a service representative.

E677-5802 PDL Initialize Error

Service Call

Cause An error occurred during the initialization of the printer function.

Solution Perform a printer reset to try to initialize the function again. If this error persists, contact a service representative.

E677-5800 PDL Service Call

Service Call

Cause An internal error has occurred.

Solution Perform a printer reset to try to initialize the function again. If this error persists, contact a service representative.

PDL RIP Initialize Error

Error Skip

Cause An error occurred during printer initialization, and the initialization could not be performed correctly.

Solution Try to initialize again. If the error still occurs, perform a reset and try to initialize again. If the problem still persists, contact a service representative. You must perform an Error Skip manually to skip this error.

PDL Memory Over

Error Skip*

Cause The machine's memory is full and printing can not proceed.

Solution Change the mode setting in the printer driver and try printing again. Or reduce the complexity of the print job by reducing the number of fonts or macros that need to be downloaded to the machine.

*: If Auto Continue is selected, this error is skipped automatically.

PDL HD Error

Error Skip

Cause The printer has reported a hard disk error.

Solution Perform a reset and try printing again. If the problem persists, contact a service representative. You must perform a Error Skip manually to skip this error.

PDL Warning

Cause An internal error has occurred for the printer function.

Solution Perform a printer reset to try to initialize the function again. If this error persists, contact a service representative.

Printing Problems

If you have trouble printing, we recommend dealing with the problems in the following ways.

NOTE

- Please contact your Canon service representative if a problem persists, or if you encounter problems not listed below.

Printer Trouble

The printer does not work

Cause 1 There is data remaining in the printer's memory. (The Processing/Data lamp is flashing or lit.)

Solution Print out the data.

Reference See "Operating Print Jobs Sent from a Computer," in the *Reference Guide*.

Cause 2 There is a problem with the printer or the software.

Solution Look at the message on the display and act accordingly.

Reference See "When a Message Is Displayed," on p. 5-3.

Printing stops before the job is complete

Cause There is data remaining in the printer's memory. (The Processing/Data lamp is flashing or lit.)

Solution Print out the data.

Reference See "Operating Print Jobs Sent from a Computer," in the *Reference Guide*.

You cannot stop the print job

Cause The print job is too large to be stopped.

Solution Restart any jobs that have been suspended by performing an error skip.

Printing Problems

Meaningless characters are being printed

Cause 1 You have printed from Windows without installing the printer driver for Windows that was included with the printer.

Solution Install the printer driver for Windows that was included with the printer and print the data again.

Reference See the *PCL Driver Guide* and the *PS Driver Guide*.

Cause 2 DOS application software printer settings are inadequate.

Solution Reset the DOS application software printer settings on a printer that is compatible with the machine.

Reference See the *PCL Driver Guide* and the *PS Driver Guide*.

A font that is different to the one specified is printed

Cause The “Replace with TrueType font” setting has been set on the printer driver for Windows.

Solution Set the “Replace with TrueType font” setting to the correct setting and print the data again.

Reference See the Help function on the printer driver.

You cannot print the last page

Cause The command that identifies the end of the data has not been sent from the PC. (The Processing/Data lamp is flashing or lit.)

Solution Clear the print data. (When you print from application software that does not have a print function and the last page of data is less than one page, the data will remain in the printer’s memory.)

Reference See “Operating Print Jobs Sent from a Computer,” in the *Reference Guide*.

The data does not fit on the page properly (All of the data that should be on the page is not printed)

Cause 1 The paper is not in the correct position.

Solution Make sure the printer's set correctly and try printing again.

Reference See "Loading Paper," in the *Reference Guide*.

Cause 2 A full page of data, without a border, was printed.

Solution Insert a border greater than 3/16 in. (5 mm) around the data and print the data again. (Data cannot be printed in a border area of 3/16 in. (5 mm) around the data.)

Reference See the application software manual.

The printing location has slipped

Cause 1 Margin, Offset X or Offset Y in the printer settings menu have been changed.

Solution Set Margin, Offset X and Offset Y to 0.0 and print the data again.

Reference See "Margin," on p. 3-8.
See "Offset X," and "Offset Y," on p. 3-10.

Cause 2 The application software's top margin and paper location settings are not correct.

Solution Set the correct settings for the top margin and the paper location and print the data again.

Reference See the application software manual.

Data that should be printed on the same page is printed on two separate pages

Cause 1 The application software's "Line spacing" and "Number of lines on a page" settings are not correct.

Solution Change the settings so that the data fits on one page and print the data again.

Reference See the application software manual.

Cause 2 The Timeout setting is too short, when the Personality setting is set to Auto.

Solution Change the Personality setting to a setting other than Auto, or increase the Timeout setting.

Reference See "Personality," on p. 3-19.
See "Timeout," on p. 3-12.

Print Quality Problems

The printout is too light or too dark

Cause 1	The toner density settings are not correct.
Solution	Adjust Density in the printer settings menu.
Reference	See “Density,” on p. 3-6.
Cause 2	Toner Save in the printer settings menu is set to [On].
Solution	Set Toner Save to [Off].
Reference	See “Toner Save,” on p. 3-6.

Appendix

6
CHAPTER

This chapter shows print samples for different fonts, describes font information, including sources and font lists, and lists a summary of the specifications for the machine.

Some Basic Facts About Fonts 6-2
What Is a Font? 6-2
Attributes of Fonts 6-2
Bit-mapped Fonts and Scalable Fonts 6-8
Checking the Font Lists for Available Fonts 6-14
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Some Basic Facts About Fonts

This section summarises some of the basic facts you should know about fonts.

What Is a Font?

A font is a collection of letters and symbols used when printing a document. In general, a group of letters and symbols sharing a common design is referred to as a font. A font consists of the letters A to Z in both upper and lowercase, digits, and symbols.

The design that distinguishes one font from another is referred to as a “typeface.” Each font has a typeface name, such as Courier, CG Times, Letter Gothic, etc.

Attributes of Fonts

All fonts share some common characteristics, which are called “attributes.” The typeface is one such attribute. The letters and symbols that are actually printed are determined by the values of a collection of these attributes.

Typeface	The design of the letters (for example, Courier, CG Times, Letter, or Gothic).
Stroke weight	The thickness of the lines with which the letters are drawn (e.g. bold, medium, or light).
Style	Whether the letters are drawn straight or at an angle (e.g. upright or italic).
Point size	Height of the letters (e.g. 10 point or 5 point).
Pitch (cpi)	Number of characters that are printed in one inch (e.g. 10 cpi, 12 cpi, or Scale).
Character width (Fix/PS)	Indicates whether the character width is set to “Fixed” or “Proportional.”
Defaults Orientation	Orientation of the characters on a page (“Portrait” or “Landscape”).
Symbol set	The rule that defines the correspondence between the character codes coming from the host computer, and the letter forms that appear on the page (for example, Roman-8).

Typeface

Typeface refers to the design of the characters and symbols. The following figure shows an example of some typefaces.

■ **Typeface**

Courier ABCDEFGHIJKLMNOPQRSTUVWXYZ

Times ABCDEFGHIJKLMNOPQRSTUVWXYZ

Helvetica ABCDEFGHIJKLMNOPQRSTUVWXYZ

Stroke Weight

Stroke weight refers to the thickness of the print. There are light, medium, and bold stroke weights. The printer function has medium and bold fonts available. The figure below shows an example of medium and bold printing.

■ **Stroke weight**

MEDIUM MEDIUM MEDIUM

BOLD BOLD BOLD BOLD BOLD

Style

Style refers to the shape of the characters. The printer function can print in two styles:
upright and italic. With some fonts like Letter Gothic, the term "Oblique" is used in the same manner as italics.

■ **Style**

UPRIGHT UPRIGHT UPRIGHT

ITALIC ITALIC ITALIC

Point size

Point size refers to the height of the character. Point size is measured in points. One inch is divided into 72 points and 1 point is 1/72 of an inch (about 0.35 mm). The printer function has bit-mapped fonts and scalable fonts available. The bit-mapped fonts are fixed in size, but the scalable fonts are not fixed in size. Scalable fonts are freely scalable to any size you wish in 0.1 point increments. The following figure shows an example of various point sizes.

■ **Points size**

CGTimes 7pt
CGTimes 8pt
CGTimes 9pt
CGTimes 10pt
CGTimes 11pt
CGTimes 12pt
CGTimes 14pt
CGTimes 18pt
CGTimes 24pt

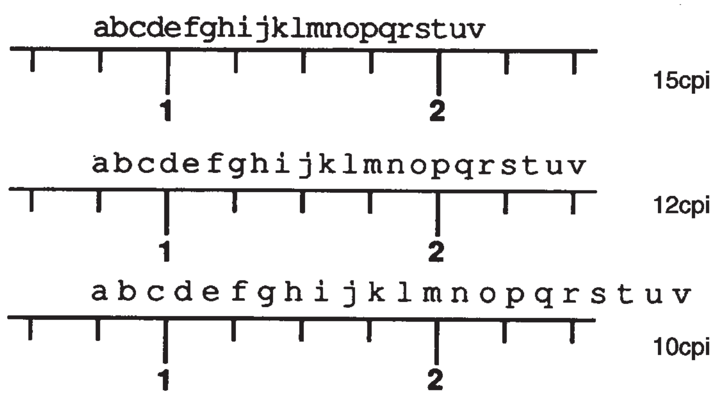
NOTE

- Refer to the section "Bit-mapped Fonts and Scalable Fonts," on p. 6-8 for more information on bit-mapped fonts and scalable fonts.

Pitch (cpi)

Pitch refers to the number of characters that are printed in one inch. The unit is cpi (characters per inch). As the number of characters per inch increases, the space between characters decreases; as the cpi decreases, the space between characters increases.

■ **Pitch**



Character Width (Fix and PS)

Each character has a different width from all the other characters in a font at a given point size. For example, “W” is a wider letter than “I.” There are two ways to go about printing letters of different widths: you can print all letters with the same spacing, regardless of their actual width; or you can change the spacing between letters to accommodate these different widths. Printing all letters with the same spacing is called “Fixed spacing”, while changing the spacing to accommodate different letter widths is called “Proportional spacing.”

Because the Fixed spacing method prints all letters with the same spacing, the number of characters which will fit into a given length is a fixed quantity which can be specified.

If the characters are printed with Proportional spacing, then the number of characters that will fit into an inch varies depending on the letters printed.

■ **Fixed spacing and Proportional spacing**

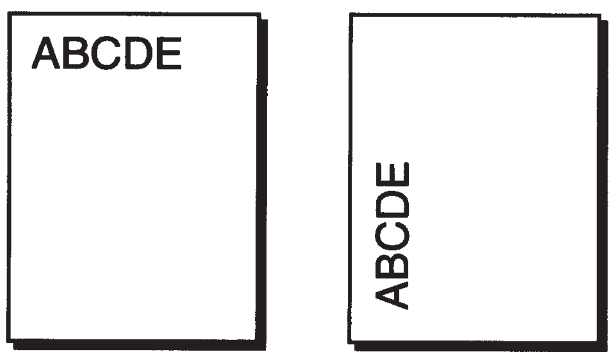


Proportional spacing　　Fixed spacing

Orientation

Orientation refers to the direction of printing. The printer function can print using two different paper orientations: portrait and landscape. With portrait orientation, text is printed across the width of the paper (short edge), and with landscape orientation, text is printed across the length of the paper (long edge).

■ **Orientation**

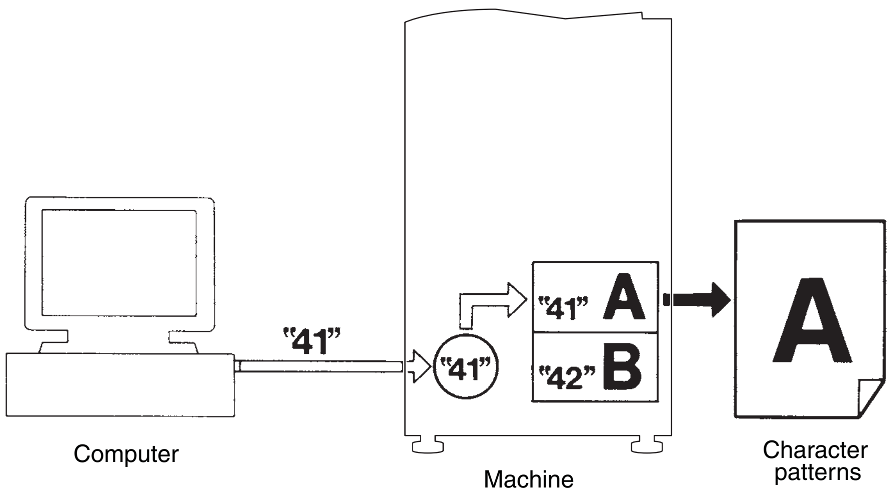


Portrait　　Landscape

Symbol Set

When you print the letter “A,” the host computer sends a code corresponding to “A” (hexadecimal 41 is an example of this) to the machine. This code is referred to as the character code. The machine stores an internal representation of each character, and selects from among these character patterns the pattern corresponding to the received code. In this case, the machine searches for the pattern for “A,” and prints it.

■ **The process by which letters are printed**



The machine uses a fixed rule to decide which letter or symbol corresponds to the character code sent from the host computer. For example, the letter “A” is printed for the hexadecimal code “41”. The rule which determines the correspondence between character codes and printed letter is called the ”symbol set.”

Bit-mapped Fonts and Scalable Fonts

There are two types of fonts available, and these fonts are distinguished by the type of data from which they are formed.

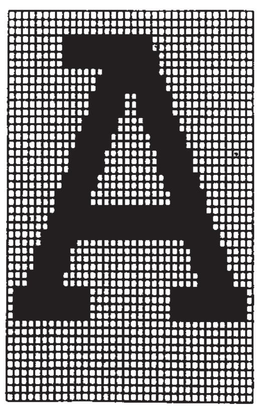
- Bit-mapped fonts
- Scalable fonts

Bit-mapped Fonts

Each character of bit-mapped fonts are composed of grid of small dots and stored in the machine's memory in dot matrix.

Bit-mapped fonts are fixed in size and specified by the characteristics called "attributes," such as typeface, stroke weight, style and so on. Various types of bit mapped fonts are produced by the combination of these attributes.

■ **Bit-mapped fonts**

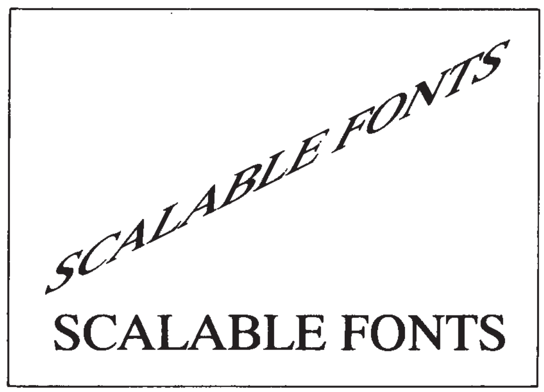


Scalable Fonts

With scalable fonts, characters are freely enlarged or compressed from the one point to any size you wish in 0.1 point increments.

■ **Scalable fonts**





Standard Scalable Fonts (PCL)

With scalable fonts, characters are freely enlarged or compressed from one point to any size you wish in 0.1 point increments. (The maximum range of scaling depends on the size of the memory installed in the machine and the size of the paper used.)

The following scalable typefaces are included with the machine.

Albertus Extra Bold
Albertus Medium
AntiqOlive
AntiqOlive Bold
AntiqOlive Italic
Arial
Arial Bold
Arial Bold Italic
Arial Italic
CG Omega
CG Omega Bold
CG Omega Bold Italic
CG Omega Italic
CG Times
CG Times Bold
CG Times Bold Italic
CG Times Italic
Clarendon Condensed Bold
Coronet
Courier
Courier Bold
Courier Bold Italic
Courier Italic
CourierPS
CourierPS Bold
CourierPS Oblique
CourierPS Bold Oblique
Garamond Antique
Garamond Halbfett
Garamond Kursiv
Garamond Kursiv Halbfett
Helvetica
Helvetica Bold
Helvetica Bold Oblique
Helvetica Narrow
Helvetica Narrow Bold
Helvetica Narrow Bold Oblique
Helvetica Narrow Oblique
Helvetica Oblique
ITC Avant Garde Gothic Book
ITC Avant Garde Gothic Book Oblique
ITC Avant Garde Gothic Demi
ITC Avant Garde Gothic Demi Oblique
ITC Bookman Demi
ITC Bookman Demi Italic
ITC Bookman Light
ITC Bookman Light Italic
ITC Zapf Chancery Medium Italic
ITC Zapf Dingbats
Letter Gothic
Letter Gothic Bold
Letter Gothic Italic
Marigold
New Century Schoolbook Bold
New Century Schoolbook Bold Italic
New Century Schoolbook Italic
New Century Schoolbook Roman
Palatino Bold
Palatino Bold Italic
Palatino Italic
Palatino Roman
Symbol *
SymbolPS
Times Bold
Times Bold Italic
Times Italic
Times New
Times New Bold
Times New Bold Italic
Times New Italic
Times Roman
Universe Medium
Universe Bold
Universe Bold Condensed
Universe Bold Condensed Italic
Universe Bold Italic
Universe Italic
Universe Medium Condensed
Universe Medium Condensed Italic
Wingdings *

* Support the euro symbol.

OCR Sets Fonts (PCL)

OCR A
OCR B

Bar Code Fonts (PCL)

BC3 of 9 Thin
BC3 of 9 Light
BC3 of 9
BC3 of 9 SemiBold
BC3 of 9 Heavy
Code 128
Code 128 Bold
Code 128 Condensed
Code 128 Condensed Bold
Code 128 Expanded
Code 128 Expanded Bold
Codebar
Codebar Condensed
Codebar Expanded
Interleaved 2 of 5 Light
Interleaved 2 of 5
Interleaved 2 of 5 Semi
Interleaved 2 of 5 Bold
Interleaved 2 of 5 Narrow Light
Interleaved 2 of 5 Narrow
Interleaved 2 of 5 Narrow Semi
Interleaved 2 of 5 Narrow Bold
MSI Plessey
PostNet
UPC/EAN
UPC/EAN Bold
UPC/EAN Condensed
UPC/EAN Condensed Bold
UPC/EAN Expanded
UPC/EAN Expanded Bold

Symbol Sets (For Scalable Typefaces Only)

The following symbol sets are included with the machine.

ASCII (ISO6)
BC3 of 9 Barcode
Code 128 Barcode
Codebar
Desktop
Interleaved Barcode
ISO 8859-1 Latin 1
ISO 8859-10 Latin 6
ISO 8859-2 Latin 2
ISO 8859-9 Latin 5
ISO French (ISO69)
ISO German (ISO21)
ISO Italian (ISO15)
ISO Norwegian (ISO60)
ISO Spanish (ISO17)
ISO Swedish:names (ISO11)
ISO United Kingdom (ISO4)
Legal
Math-8
MC Text
Microsoft Publishing
MSI Plessey
PC-1004 (OS/2)
PC-775
PC-8
PC-8 Danish/Norwegian
PC-8 Greek Alternate
CodePage437
PC-850
PC-852
PC-860 Portugal
PC-865 Norway
PC-Turkish
PI Font
PostNet
PS Math
PS Text
Roman-8
Symbol
UPC/EAN Barcode
Ventura International
Ventura Math
Ventura US
Windows 3.0 Latin 1
Windows Baltic *
Windows Latin 1 *
Windows Latin 2 *
Windows Latin 5 *
Wingdings

* Support the euro symbol.

PS Fonts

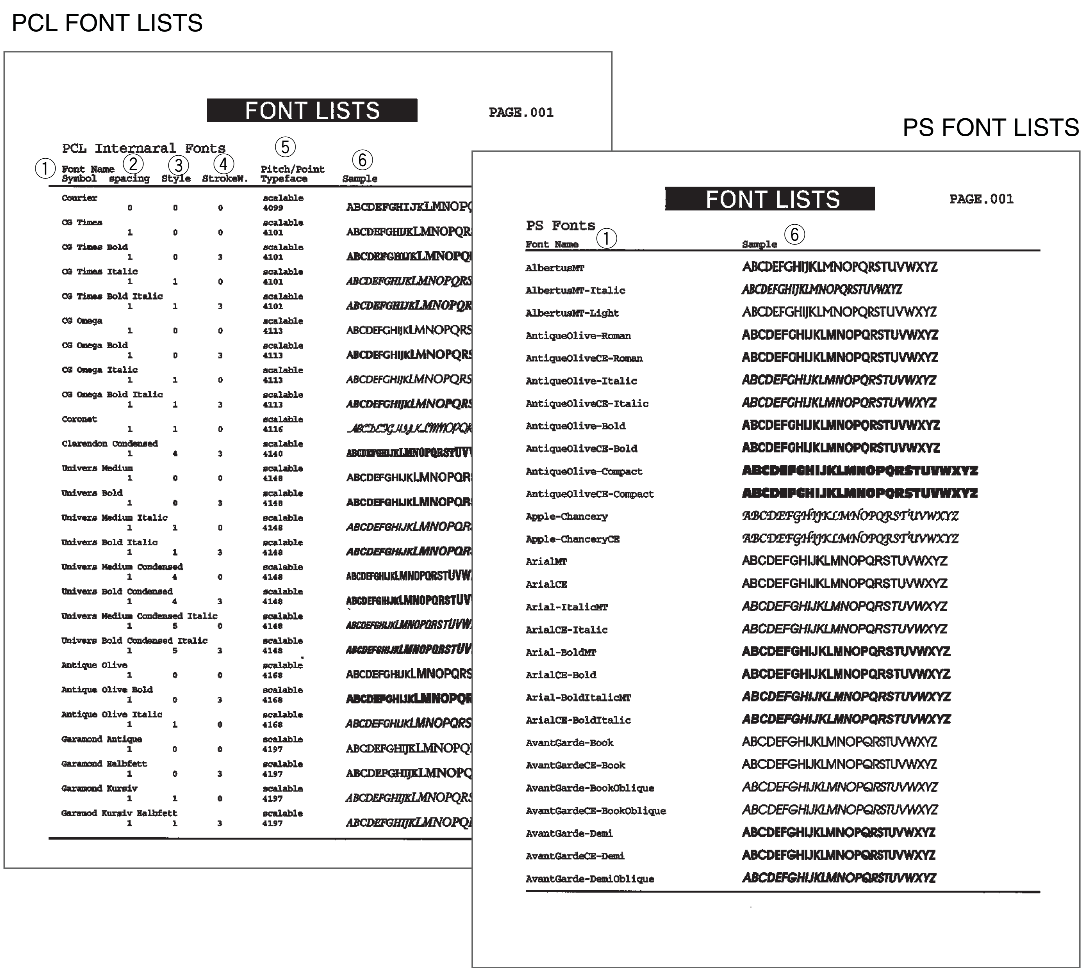
AlbertusMT
AlbertusMT Italic
AlbertusMT Light
AntiqueOlive Roman
AntiqueOliveCE Roman
AntiqueOlive Italic
AntiqueOliveCE Italic
AntiqueOlive Bold
AntiqueOliveCE Bold
AntiqueOlive Compact
AntiqueOliveCE Compact
Apple Chancery
Apple ChanceryCE
ArialMT
ArialCE
Arial ItalicMT
ArialCE Italic
Arial BoldMT
ArialCE Bold
Arial BoldItalicMT
ArialCE BoldItalic
AvantGarde Book
AvantGardeCE Book
AvantGarde BookOblique
AvantGardeCE BookOblique
AvantGarde Demi
AvantGardeCE Demi
AvantGarde DemiOblique
AvantGardeCE DemiOblique
Bodoni
BodoniCE
Bodoni Italic
BodoniCE Italic
Bodoni Bold
BodoniCE Bold
Bodoni BoldItalic
BodoniCE BoldItalic

Bodoni Poster
BodoniCE Poster
Bodoni
PosterCompressed
BodoniCE
PosterCompressed
Bookman Light
BookmanCE Light
Bookman LightItalic
BookmanCE LightItalic
Bookman Demi
BookmanCE Demi
Bookman DemiItalic
BookmanCE DemiItalic
Candid
Chicago
Chicago CE
Clarendon
ClarendonCE
Clarendon Light
ClarendonCE Light
Clarendon Bold
ClarendonCE Bold
CooperBlack
CooperBlack Italic
Copperplate ThirtyTwoBC
Copperplate
ThirtyThreeBC
Coronet Regular
CoronetCE Regular
Courier
CourierCE
Courier Oblique
CourierCE Oblique
Courier Bold
CourierCE Bold
Courier BoldOblique
CourierCE BoldOblique
Eurostile
EurostileCE
Eurostile Bold
EurostileCE Bold
Eurostile ExtendedTwo
EurostileCE
ExtendedTwo
Eurostile
BoldExtendedTwo
EurostileCE
BoldExtendedTwo
Geneva
GenevaCE
GillSans
GillSansCE Roman
GillSans Italic
GillSansCE Italic
GillSans Bold
GillSansCE Bold
GIllSans BoldItalic
GIllSansCE BoldItalic
GillSans Condensed
GillSansCE Condensed
GillSans BoldCondensed
GillSansCE
BoldCondensed
GillSans Light
GillSansCE Light
GillSans LightItalic
GillSansCE LightItalic
GillSans ExtraBold
GillSansCE ExtraBold
Goudy
Goudy Italic
Goudy Bold
Goudy BoldItalic
Goudy ExtraBold
Helvetica
HelveticaCE
Helvetica Oblique
HelveticaCE Oblique
Helvetica Bold
HelveticaCE Bold
Helvetica BoldOblique
HelveticaCE BoldOblique
Helvetica Condensed
HelveticaCE Cond
Helvetica Condensed
Oblique
HelveticaCE CondObl
Helvetica Condensed
Bold
HelveticaCE CondBold
Helvetica Condensed
BoldObl
HelveticaCE
CondBoldObl
Helvetica Narrow
HelveticaCE Narrow
Helvetica Narrow Bold
HelveticaCE NarrowBold
Helvetica Narrow
BoldOblique
HelveticaCE Narrow
BoldOblique
Helvetica Narrow Oblique
HelveticaCE
NarrowOblique
HoeflerText Regular
HoeflerTextCE Regular
HoeflerText Italic
HoeflerTextCE Italic
HoeflerText Black
HoeflerTextCE Black
HoeflerText BlackItalic
HoeflerTextCE BlackItalic
HoeflerText Ornaments
JoannaMT
JoannaMTCE
JoannaMT Italic
JoannaMTCE Italic
JoannaMT Bold
JoannaMTCE Bold
JoannaMT BoldItalic
JoannaMTCE BoldItalic
LetterGothic
LetterGothicCE
LetterGothic Slanted
LetterGothicCE Slanted
LetterGothic Bold
LetterGothicCE Bold
LetterGothic BoldSlanted
LetterGothicCE
BoldSlanted
LubalinGraph Book
LubalinGraphCE Book
LubalinGraph
BookOblique
LubalinGraphCE
BookOblique
LubalinGraph Demi
LubalinGraphCE Demi
LubalinGraph
DemiOblique
LubalinGraphCE
DemiOblique
Marigold
Monaco
MonacoCE
MonaLisa Recut
NewCenturySchlbk
Roman
NewCenturySchlbkCE
Roman
NewCenturySchlbk Italic
NewCenturySchlbkCE
Italic
NewCenturySchlbk Bold
NewCenturySchlbkCE
Bold
NewCenturySchlbk
BoldItalic
NewCenturySchlbkCE
BoldItalic
NewYork
NewYorkCE
Optima

OptimaCE Roman
Optima Italic
OptimaCE Italic
Optima Bold
OptimaCE Bold
Optima BoldItalic
OptimaCE BoldItalic
Oxford
Palatino Roman
PalatinoCE Roman
Palatino Italic
PalatinoCE Italic
Palatino Bold
PalatinoCE Bold
Palatino BoldItalic
PalatinoCE BoldItalic
StempelGaramond Roman
StempelGaramondCE Roman
StempelGaramond Italic
StempelGaramondCE Italic
StempelGaramond Bold
StempelGaramondCE Bold
StempelGaramond BoldItalic
StempelGaramondCE BoldItalic
Symbol
Tekton
Times Roman
TimesCE Roman
Times Italic
TimesCE Italic
Times Bold
TimesCE Bold
Times BoldItalic
TimesCE BoldItalic
TimesNewRomanPSMT
TimesNewRomanCE
TimesNewRomanPS ItalicMT
TimesNewRomanCE Italic
TImesNewRomanPS BoldMT
TimesNewRomanCE Bold
TimesNewRomanPS BoldItalicMT
TimesNewRomanCE BoldItalic
Univers
UniversCE Medium
Univers Oblique
UniversCE Oblique
Univers Bold
UniversCE Bold
Univers BoldOblique
UniversCE BoldOblique
Univers Light
UniversCE Light
Univers Light Oblique
Univers CE Light Oblique
Univers Condensed
UniversCE Condensed
Univers CondensedOblique
UniversCE CondensedOblique
Univers CondensedBold
UniversCE CondensedBold
Univers CondensedBoldOblique
UniversCE CondensedBoldOblique
Univers Extended
UniversCE Extended
Univers ExtendedObl
UniversCE ExtendedObl
Univers BoldExt
UniversCE BoldExt
Univers BoldExtObl
UniversCE BoldExtObl
Wingdings Regular
ZapfChancery MediumItalic
ZapfChanceryCE MediumItalic
ZapfDingbats

Checking the Font Lists for Available Fonts

Font lists are a comprehensive listing of all fonts currently available. The listing contains both the names of resident fonts, and the names of the fonts stored on any external hard disk that may be present.



The Font List includes the following information:

① **Font Name**

The typeface name.

② **Spacing**

This indicates whether a font is a fixed-size, non-proportional font or a proportional font.

③ **Style**

Upright (straight) characters or italic (slanted) characters.

④ **Stroke Weight**

The stroke weight of the characters in the font.

⑤ **Pitch/Point Size**

The pitch and point size. For a scalable font, Scale is displayed. The vertical distance in points from the top of capital letters to the tail of the letter y.

⑥ **Print sample**

A print sample of the font.

Typeface Samples

Standard Scalable Fonts (PCL)

Font	Sample
Courier	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Times Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Omega	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Omega Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Omega Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CG Omega Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Coronet	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Clarendon Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Medium	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Medium Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Medium Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Bold Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Medium Condensed Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Bold Condensed Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Antique Olive	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Antique Olive Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Antique Olive Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Garamond Antique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Garamond Halbfett	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Garamond Kursiv	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Garamond Kursiv Halbfett	ABCDEFGHIJKLMNOPQRSTUVWXYZ

Marigold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Albertus Medium	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Albertus Extra Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times New	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times New Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times New Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times New Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Bold Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Narrow	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Narrow Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Narrow Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Narrow Bold Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Avant Garde Gothic Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Avant Garde Gothic Demi	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Avant Garde Gothic Book Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ

ITC Avant Garde Gothic Demi Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Bookman Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Bookman Demi	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Bookman Light Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Bookman Demi Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
New Century Schoolbook Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
New Century Schoolbook Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
New Century Schoolbook Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
New Century Schoolbook Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ITC Zapf Chancery Medium Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Symbol	ΑΒΧΔΕΦΓΗΙϑΚΛΜΝΟΠΘΡΣΤΥςΩΞΨΖ
SymbolPS	ΑΒΧΔΕΦΓΗΙϑΚΛΜΝΟΠΘΡΣΤΥςΩΞΨΖ
Wingdings	
ITC Zapf Dingbats	
Courier Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier Bold Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Letter Gothic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Letter Gothic Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Letter Gothic Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierPS	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierPS Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierPS Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierPS Bold Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ

Bar Code Scalable Fonts (PCL)

BC 3 of 9 Thin
BC 3 of 9 Light
BC 3 of 9
BC 3 of 9 Semi
BC 3 of 9 Heavy
Code 128
Code 128 Bold
Code 128 Condensed
Code 128 Condensed Bold
Code 128 Expanded
Code 128 Expanded Bold
Interleaved 2 of 5 Light
Interleaved 2 of 5
Interleaved 2 of 5 Semi
Interleaved 2 of 5 Bold
Interleaved 2 of 5 Narrow Light
Interleaved 2 of 5 Narrow
Interleaved 2 of 5 Narrow Semi
Interleaved 2 of 5 Narrow Bold
UPC/EAN
UPC/EAN Bold
UPC/EAN Condensed
UPC/EAN Condensed Bold
UPC/EAN Expanded
UPC/EAN Expanded Bold
Codebar
Codebar Condenced
Codebar Expanded
MSI Plessey
PostNet

OCR Code Scalable Fonts (PCL)

OCR A	ABCDEFGHIJKLMNOPQRSTUVWXYZ
OCR B	ABCDEFGHIJKLMNOPQRSTUVWXYZ

Bit-mapped Fonts

Line Printer	ABCDEFGHIJKÀÂÈÊËÎÏ´`ˆ¨˜ÙÛ£
Line Printer	ABCDEFGHIJK
Line Printer	ABCDEFGHIJKíóúñÑªº¿⌐¬½¼¡«»
Line Printer	ABCDEFGHIJKíóúñÑõÕ¿ãÃℓn¡³¤
Line Printer	ABCDEFGHIJKíóúñÑªº¿®¬½¼¡«»
Line Printer	ABCDEFGHIJK
Line Printer	ABCDEFGHIJKĄ˘Ł¤ĽŚ§¨ŠŞŤŹ-ŽŻ
Line Printer	ABCDEFGHIJK¡¢£¤¥¦§¨©ª«¬-®¯
Line Printer	ABCDEFGHIJKĄĒĢĪĨĶ§ĻĐŠŦŽ-ŪŊ

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Appendix

PS Fonts

AlbertusMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AlbertusMT Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AlbertusMT Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOlive Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOliveCE Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOlive Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOliveCE Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOlive Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOliveCE Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOlive Compact	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AntiqueOliveCE Compact	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Apple Chancery	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Apple ChanceryCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ArialMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ArialCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial ItalicMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ArialCE Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial BoldMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ArialCE Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Arial BoldItalicMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ArialCE BoldItalic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGarde Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGardeCE Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGarde BookOblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGardeCE BookOblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGarde Demi	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGardeCE Demi	ABCDEFGHIJKLMNOPQRSTUVWXYZ
AvantGarde DemiOblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ

Font	Sample
AvantGardeCE DemiOblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Bodoni	ABCDEFGHIJKLMNOPQRSTUVWXYZ
BodoniCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Bodoni Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
BodoniCE Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Bodoni Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
BodoniCE Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Bodoni BoldItalic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
BodoniCE BoldItalic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Bodoni Poster	ABCDEFGHIJKLMNOPQRSTUVWXYZ
BodoniCE Poster	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Bodoni PosterCompressed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
BodoniCE PosterCompressed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Bookman Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
BookmanCE Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Bookman LightItalic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
BookmanCE LightItalic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Bookman Demi	ABCDEFGHIJKLMNOPQRSTUVWXYZ
BookmanCE Demi	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Bookman DemiItalic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
BookmanCE DemiItalic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Candid	
Chicago	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Chicago CE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Clarendon	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ClarendonCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Clarendon Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ClarendonCE Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ

Clarendon Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
ClarendonCE Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CooperBlack	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CooperBlack Italic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Copperplate ThirtyTwoBC	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Copperplate ThirtyThreeBC	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Coronet Regular	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CoronetCE Regular	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierCE Oblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierCE Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Courier BoldOblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
CourierCE BoldOblique	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Eurostile	ABCDEFGHIJKLMNOPQRSTUVWXYZ
EurostileCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Eurostile Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
EurostileCE Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Eurostile ExtendedTwo	ABCDEFGHIJKLMNOPQRSTUVWXYZ
EurostileCE ExtendedTwo	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Eurostile BoldExtendedTwo	ABCDEFGHIJKLMNOPQRSTUVWXYZ
EurostileCE BoldExtendedTwo	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Geneva	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GenevaCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSans	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSansCE Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ

GillSans Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
GillSansCE Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
GillSans Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
GillSansCE Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
GIllSans BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
GIllSansCE BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
GillSans Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSansCE Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSans BoldCondensed	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
GillSansCE BoldCondensed	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
GillSans Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSansCE Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
GillSans LightItalic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
GillSansCE LightItalic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
GillSans ExtraBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
GillSansCE ExtraBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Goudy	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Goudy Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Goudy Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Goudy BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Goudy ExtraBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Helvetica	ABCDEFGHIJKLMNOPQRSTUVWXYZ
HelveticaCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
HelveticaCE Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Helvetica Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
HelveticaCE Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Helvetica BoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***

HelveticaCE BoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Helvetica Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
HelveticaCE Cond	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Condensed Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
HelveticaCE CondObl	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Helvetica Condensed Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
HelveticaCE CondBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Helvetica Condensed BoldObl	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
HelveticaCE CondBoldObl	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Helvetica Narrow	ABCDEFGHIJKLMNOPQRSTUVWXYZ
HelveticaCE Narrow	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Helvetica Narrow Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
HelveticaCE NarrowBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Helvetica Narrow BoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
HelveticaCE Narrow BoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Helvetica Narrow Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
HelveticaCE NarrowOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
HoeflerText Regular	ABCDEFGHIJKLMNOPQRSTUVWXYZ
HoeflerTextCE Regular	ABCDEFGHIJKLMNOPQRSTUVWXYZ
HoeflerText Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
HoeflerTextCE Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
HoeflerText Black	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
HoeflerTextCE Black	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
HoeflerText BlackItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
HoeflerTextCE BlackItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
HoeflerText Ornaments	
JoannaMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
JoannaMTCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ

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Appendix

JoannaMT Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
JoannaMTCE Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
JoannaMT Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
JoannaMTCE Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
JoannaMT BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
JoannaMTCE BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
LetterGothic	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LetterGothicCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LetterGothic Slanted	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
LetterGothicCE Slanted	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
LetterGothic Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
LetterGothicCE Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
LetterGothic BoldSlanted	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
LetterGothicCE BoldSlanted	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
LubalinGraph Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LubalinGraphCE Book	ABCDEFGHIJKLMNOPQRSTUVWXYZ
LubalinGraph BookOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
LubalinGraphCE BookOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
LubalinGraph Demi	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
LubalinGraphCE Demi	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
LubalinGraph DemiOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
LubalinGraphCE DemiOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Marigold	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Monaco	ABCDEFGHIJKLMNOPQRSTUVWXYZ
MonacoCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
MonaLisa Recut	ABCDEFGHIJKLMNOPQRSTUVWXYZ
NewCenturySchlbk Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
NewCenturySchlbkCE Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ

NewCenturySchlbk Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
NewCenturySchlbkCE Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
NewCenturySchlbk Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
NewCenturySchlbkCE Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
NewCenturySchlbk BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
NewCenturySchlbkCE BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
NewYork	ABCDEFGHIJKLMNOPQRSTUVWXYZ
NewYorkCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Optima	ABCDEFGHIJKLMNOPQRSTUVWXYZ
OptimaCE Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Optima Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
OptimaCE Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Optima Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
OptimaCE Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Optima BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
OptimaCE BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Oxford	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
PalatinoCE Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Palatino Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
PalatinoCE Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Palatino Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
PalatinoCE Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Palatino BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
PalatinoCE BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
StempelGaramond Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
StempelGaramondCE Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
StempelGaramond Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*

StempelGaramondCE Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
StempelGaramond Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
StempelGaramondCE Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
StempelGaramond BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
StempelGaramondCE BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Symbol	ΑΒΧΔΕΦΓΗΙϑΚΛΜΝΟΠΘΡΣΤΥςΩΞΨΖ
Tekton	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
TimesCE Roman	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Times Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
TimesCE Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Times Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
TimesCE Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Times BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
TimesCE BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
TimesNewRomanPSMT	ABCDEFGHIJKLMNOPQRSTUVWXYZ
TimesNewRomanCE	ABCDEFGHIJKLMNOPQRSTUVWXYZ
TimesNewRomanPS ItalicMT	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
TimesNewRomanCE Italic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
TImesNewRomanPS BoldMT	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
TimesNewRomanCE Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
TimesNewRomanPS BoldItalicMT	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
TimesNewRomanCE BoldItalic	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Univers	ABCDEFGHIJKLMNOPQRSTUVWXYZ
UniversCE Medium	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
UniversCE Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Univers Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**

UniversCE Bold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Univers BoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
UniversCE BoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Univers Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
UniversCE Light	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers Light Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Univers CE Light Oblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Univers Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
UniversCE Condensed	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers CondensedOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
UniversCE CondensedOblique	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Univers CondensedBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
UniversCE CondensedBold	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Univers CondensedBoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
UniversCE CondensedBoldOblique	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Univers Extended	ABCDEFGHIJKLMNOPQRSTUVWXYZ
UniversCE Extended	ABCDEFGHIJKLMNOPQRSTUVWXYZ
Univers ExtendedObl	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
UniversCE ExtendedObl	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
Univers BoldExt	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
UniversCE BoldExt	**ABCDEFGHIJKLMNOPQRSTUVWXYZ**
Univers BoldExtObl	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
UniversCE BoldExtObl	***ABCDEFGHIJKLMNOPQRSTUVWXYZ***
Wingdings Regular	✌👌👍👎☜☞☝☟✋☺😐☹💣☠⚐🏱✈☼💧❄🕆✞🕈✠✡☪
ZapfChancery MediumItalic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
ZapfChanceryCE MediumItalic	*ABCDEFGHIJKLMNOPQRSTUVWXYZ*
ZapfDingbats	✡✢✣✤✥✦✧★✩✪✫✬✭✮✯✰✱✲✳✴✵✶✷✸✹✺

Symbol Sets

ASCII

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
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3			#	3	C	S	c	s								
4			$	4	D	T	d	t								
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8			(	8	H	X	h	x								
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DeskTop

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ISO 8859-1 Latin 1

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2			"	2	B	R	b	r			¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s			£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t			¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u			¥	µ	Å	Õ	å	õ
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ISO 8859-10 Latin 6

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Appendix

ISO 8859-2 Latin 2

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4			$	4	D	T	d	t			¤	´	Ä	Ô	ä	ô
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ISO 8859-9 Latin 5

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2			"	2	B	R	b	r			¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s			£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t			¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u			¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v			¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w			§	·	Ç	×	ç	÷
8			(	8	H	X	h	x			¨	¸	È	Ø	è	ø
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ISO French

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2			"	2	B	R	b	r									2
3			£	3	C	S	c	s									3
4			$	4	D	T	d	t									4
5			%	5	E	U	e	u									5
6			&	6	F	V	f	v									6
7			’	7	G	W	g	w									7
8			(	8	H	X	h	x									8
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ISO German

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2			"	2	B	R	b	r									2
3			#	3	C	S	c	s									3
4			$	4	D	T	d	t									4
5			%	5	E	U	e	u									5
6			&	6	F	V	f	v									6
7			’	7	G	W	g	w									7
8			(	8	H	X	h	x									8
9			)	9	I	Y	i	y									9
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ISO Italian

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ISO Norwegian

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ISO Spanish

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ISO Swedish

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Math-8



MC Text



Microsoft Publishing

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PC-775

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6	♠	▬	&	6	F	V	f	v	å	¢	”	Č	Ų	ų	µ	÷
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8	◘	↑	(	8	H	X	h	x	ł	ś	©	Ė	╚	ž	Ķ	°
9	○	↓	)	9	I	Y	i	y	ē	Ö	®	╣	╔	┘	ķ	∙
A	◙	→	*	:	J	Z	j	z	Ŗ	Ü	¬	║	╩	┌	Ļ	·
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PC-8

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2	☻	↕	"	2	B	R	b	r	é	Æ	ó	▓	┬	╥	Γ	≥
3	♥	‼	#	3	C	S	c	s	â	ô	ú	│	├	╙	π	≤
4	♦	¶	$	4	D	T	d	t	ä	ö	ñ	┤	─	╘	Σ	⌠
5	♣	§	%	5	E	U	e	u	à	ò	Ñ	╡	┼	╒	σ	⌡
6	♠	▬	&	6	F	V	f	v	å	û	ª	╢	╞	╓	µ	÷
7	•	↨	'	7	G	W	g	w	ç	ù	º	╖	╟	╫	τ	≈
8	◘	↑	(	8	H	X	h	x	ê	ÿ	¿	╕	╚	╪	Φ	°
9	○	↓	)	9	I	Y	i	y	ë	Ö	⌐	╣	╔	┘	Θ	∙
A	◙	→	*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Ω	·
B	♂	←	+	;	K	[	k	{	ï	¢	½	╗	╦	█	δ	√
C	♀	∟	,	<	L	\	l	|	î	£	¼	╝	╠	▄	∞	ⁿ
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PC-8 D/N

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
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1	☺	◄	!	1	A	Q	a	q	ü	æ	í	▒	┴	╤	ß	±
2	☻	↕	"	2	B	R	b	r	é	Æ	ó	▓	┬	╥	Γ	≥
3	♥	‼	#	3	C	S	c	s	â	ô	ú	│	├	╙	π	≤
4	♦	¶	$	4	D	T	d	t	ä	ö	ñ	┤	─	╘	Σ	⌠
5	♣	§	%	5	E	U	e	u	à	ò	Ñ	╡	┼	╒	σ	⌡
6	♠	▬	&	6	F	V	f	v	å	û	õ	╢	╞	╓	µ	÷
7	•	↨	'	7	G	W	g	w	ç	ù	Õ	╖	╟	╫	τ	≈
8	◘	↑	(	8	H	X	h	x	ê	ÿ	¿	╕	╚	╪	Φ	°
9	○	↓	)	9	I	Y	i	y	ë	Ö	ã	╣	╔	┘	Θ	·
A	◙	→	*	:	J	Z	j	z	è	Ü	Ã	║	╩	┌	Ω	·
B	♂	←	+	;	K	[	k	{	ï	ø	ℓ	╗	╦	█	δ	√
C	♀	∟	,	<	L	\	l	|	î	£	'n	╝	╠	▄	∞	ⁿ
D	♪	↔	-	=	M	]	m	}	ì	Ø	¡	╜	═	▌	φ	²
E	♫	▲	.	>	N	^	n	~	Ä	Ŀ	³	╛	╬	▐	ε	■
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PC-850

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2	☻	↕	"	2	B	R	b	r	é	Æ	ó	▓	┬	Ê	Ô	‗
3	♥	‼	#	3	C	S	c	s	â	ô	ú	│	├	Ë	Ò	¾
4	♦	¶	$	4	D	T	d	t	ä	ö	ñ	┤	─	È	õ	¶
5	♣	§	%	5	E	U	e	u	à	ò	Ñ	Á	┼	ı	Õ	§
6	♠	▬	&	6	F	V	f	v	å	û	ª	Â	ã	Í	µ	÷
7	•	↨	'	7	G	W	g	w	ç	ù	º	À	Ã	Î	þ	¸
8	◘	↑	(	8	H	X	h	x	ê	ÿ	¿	©	╚	Ï	Þ	°
9	○	↓	)	9	I	Y	i	y	ë	Ö	®	╣	╔	┘	Ú	¨
A	◙	→	*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Û	·
B	♂	←	+	;	K	[	k	{	ï	ø	½	╗	╦	█	Ù	¹
C	♀	∟	,	<	L	\	l	|	î	£	¼	╝	╠	▄	ý	³
D	♪	↔	-	=	M	]	m	}	ì	Ø	¡	¢	═	¦	Ý	²
E	♫	▲	.	>	N	^	n	~	Ä	×	«	¥	╬	Ì	¯	■
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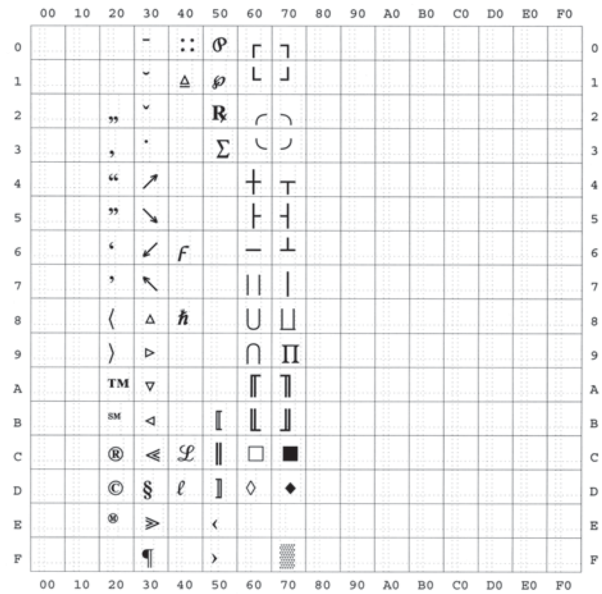
PC-852

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
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1	☺	◄	!	1	A	Q	a	q	ü	Ĺ	í	▒	┴	Đ	ß	˝
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4	♦	¶	$	4	D	T	d	t	ä	ö	Ą	┤	─	ď	ń	˘
5	♣	§	%	5	E	U	e	u	ů	Ľ	ą	Á	┼	Ň	ň	§
6	♠	▬	&	6	F	V	f	v	ć	ľ	Ž	Â	Ă	Í	Š	÷
7	•	↨	'	7	G	W	g	w	ç	Ś	ž	Ě	ă	Î	š	¸
8	◘	↑	(	8	H	X	h	x	ł	ś	Ę	Ş	╚	ě	Ŕ	°
9	○	↓	)	9	I	Y	i	y	ë	Ö	ę	╣	╔	┘	Ú	¨
A	◙	→	*	:	J	Z	j	z	Ő	Ü		║	╩	┌	ŕ	˙
B	♂	←	+	;	K	[	k	{	ő	Ť	ź	╗	╦	█	Ű	ű
C	♀	∟	,	<	L	\	l	|	î	ť	Č	╝	╠	▄	ý	Ř
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PC-Turkish

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1	☺	◄	!	1	A	Q	a	q	ü	æ	í	▒	┴	╤	ß	±
2	☻	↕	"	2	B	R	b	r	é	Æ	ó	▓	┬	╥	Γ	≥
3	♥	‼	#	3	C	S	c	s	â	ô	ú	│	├	╙	π	≤
4	♦	¶	$	4	D	T	d	t	ä	ö	ñ	┤	─	╘	Σ	⌠
5	♣	§	%	5	E	U	e	u	à	ò	Ñ	╡	┼	╒	σ	⌡
6	♠	▬	&	6	F	V	f	v	å	û	Ğ	╢	╞	╓	µ	÷
7	•	↨	'	7	G	W	g	w	ç	ù	ğ	╖	╟	╫	τ	≈
8	◘	↑	(	8	H	X	h	x	ê	İ	¿	╕	╚	╪	Φ	°
9	○	↓	)	9	I	Y	i	y	ë	Ö	⌐	╣	╔	┘	Θ	∙
A	◙	→	*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Ω	·
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C	♀	∟	,	<	L	\	l	|	î	£	¼	╝	╠	▄	∞	ⁿ
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PI Font



PS Math



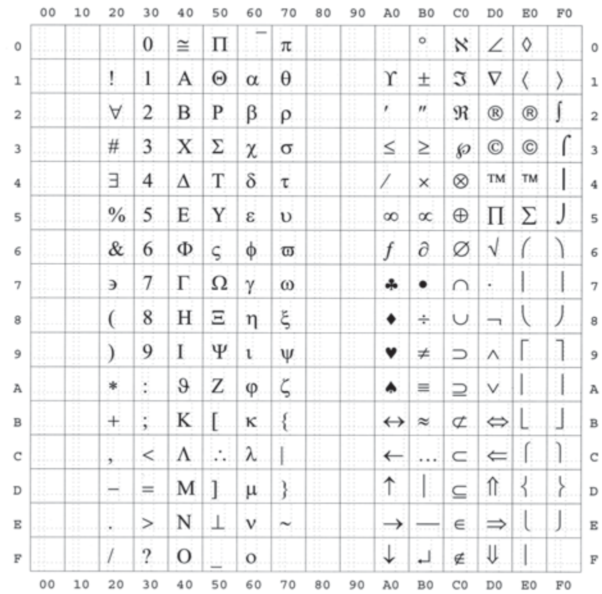
PS Text

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3			#	3	C	S	c	s			£	‡	ˆ		ª	
4			$	4	D	T	d	t			⁄	·	˜			
5			%	5	E	U	e	u			¥		¯			ı
6			&	6	F	V	f	v			ƒ	¶	˘			
7			’	7	G	W	g	w			§	•	˙			
8			(	8	H	X	h	x			¤	‚	¨		Ł	ł
9			)	9	I	Y	i	y			'	„			Ø	ø
A			*	:	J	Z	j	z			“	”	˚		Œ	œ
B			+	;	K	[	k	{			«	»	¸		º	ß
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Roman-8

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
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3			#	3	C	S	c	s			È	°	û	Æ	Đ	µ
4			$	4	D	T	d	t			Ê	Ç	á	å	ð	¶
5			%	5	E	U	e	u			Ë	ç	é	í	Í	¾
6			&	6	F	V	f	v			Î	Ñ	ó	ø	Ì	–
7			’	7	G	W	g	w			Ï	ñ	ú	æ	Ó	¼
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9			)	9	I	Y	i	y			`	¿	è	ì	Õ	ª
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Symbol



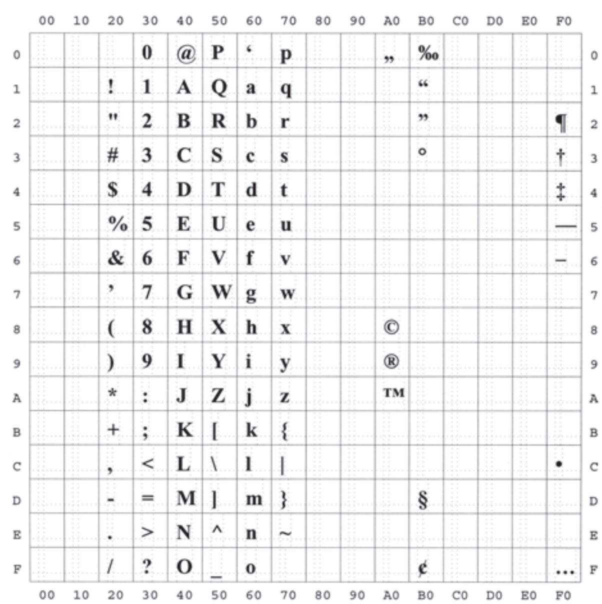
Ventura International



Ventura Math



Ventura US



6

Appendix

Windows 3.0 Latin 1

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	
0				0	@	P	`	p				°	À	Ð	à	ð	0
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2			"	2	B	R	b	r		’	¢	²	Â	Ò	â	ò	2
3			#	3	C	S	c	s			£	³	Ã	Ó	ã	ó	3
4			$	4	D	T	d	t			¤	´	Ä	Ô	ä	ô	4
5			%	5	E	U	e	u			¥	µ	Å	Õ	å	õ	5
6			&	6	F	V	f	v			¦	¶	Æ	Ö	æ	ö	6
7			'	7	G	W	g	w			§	·	Ç	×	ç	÷	7
8			(	8	H	X	h	x			¨	¸	È	Ø	è	ø	8
9			)	9	I	Y	i	y			©	¹	É	Ù	é	ù	9
A			*	:	J	Z	j	z			ª	º	Ê	Ú	ê	ú	A
B			+	;	K	[	k	{			«	»	Ë	Û	ë	û	B
C			,	<	L	\	l	|			¬	¼	Ì	Ü	ì	ü	C
D			-	=	M	]	m	}			-	½	Í	Ý	í	ý	D
E			.	>	N	^	n	~			®	¾	Î	Þ	î	þ	E
F			/	?	O	_	o	▒			¯	¿	Ï	ß	ï	ÿ	F
	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	

Windows 3.1 Latin 1

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0				0	@	P	`	p	€			°	À	Ð	à	ð	0
1			!	1	A	Q	a	q		‘	¡	±	Á	Ñ	á	ñ	1
2			"	2	B	R	b	r	‚	’	¢	²	Â	Ò	â	ò	2
3			#	3	C	S	c	s	ƒ	“	£	³	Ã	Ó	ã	ó	3
4			$	4	D	T	d	t	„	”	¤	´	Ä	Ô	ä	ô	4
5			%	5	E	U	e	u	…	•	¥	µ	Å	Õ	å	õ	5
6			&	6	F	V	f	v	†	–	¦	¶	Æ	Ö	æ	ö	6
7			'	7	G	W	g	w	‡	—	§	·	Ç	×	ç	÷	7
8			(	8	H	X	h	x	ˆ	˜	¨	¸	È	Ø	è	ø	8
9			)	9	I	Y	i	y	‰	™	©	¹	É	Ù	é	ù	9
A			*	:	J	Z	j	z	Š	š	ª	º	Ê	Ú	ê	ú	A
B			+	;	K	[	k	{	‹	›	«	»	Ë	Û	ë	û	B
C			,	<	L	\	l	|	Œ	œ	¬	¼	Ì	Ü	ì	ü	C
D			-	=	M	]	m	}			-	½	Í	Ý	í	ý	D
E			.	>	N	^	n	~			®	¾	Î	Þ	î	þ	E
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	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	

Windows 3.1 Latin 2

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
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2			"	2	B	R	b	r	‚	’	˘	˛	Â	Ň	â	ň
3			#	3	C	S	c	s		“	Ł	ł	Ă	Ó	ă	ó
4			$	4	D	T	d	t	„	”	¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u	…	•	Ą	µ	Ĺ	Ő	ĺ	ő
6			&	6	F	V	f	v	†	–	¦	¶	Ć	Ö	ć	ö
7			'	7	G	W	g	w	‡	—	§	·	Ç	×	ç	÷
8			(	8	H	X	h	x			¨	¸	Č	Ř	č	ř
9			)	9	I	Y	i	y	‰	™	©	ą	É	Ů	é	ů
A			*	:	J	Z	j	z	Š	š	Ş	ş	Ę	Ú	ę	ú
B			+	;	K	[	k	{	‹	›	«	»	Ë	Ű	ë	ű
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Windows 3.1 Latin 5

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
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3			#	3	C	S	c	s	ƒ	“	£	³	Ã	Ó	ã	ó
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5			%	5	E	U	e	u	…	•	¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v	†	–	¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w	‡	—	§	·	Ç	×	ç	÷
8			(	8	H	X	h	x	ˆ	˜	¨	¸	È	Ø	è	ø
9			)	9	I	Y	i	y	‰	™	©	¹	É	Ù	é	ù
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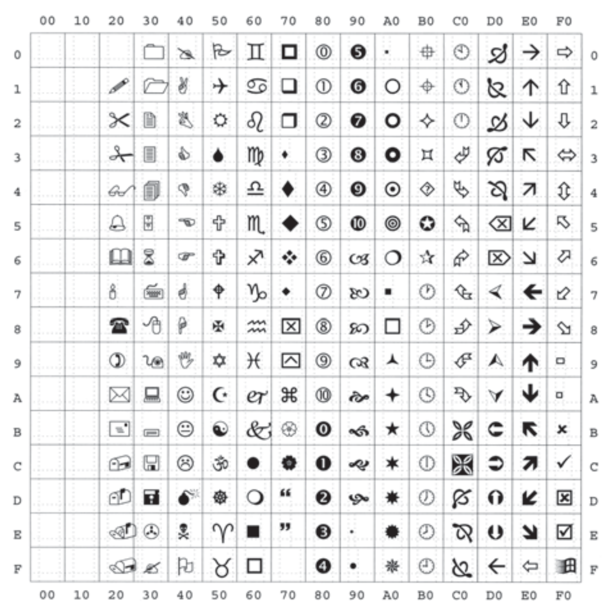
6

Appendix

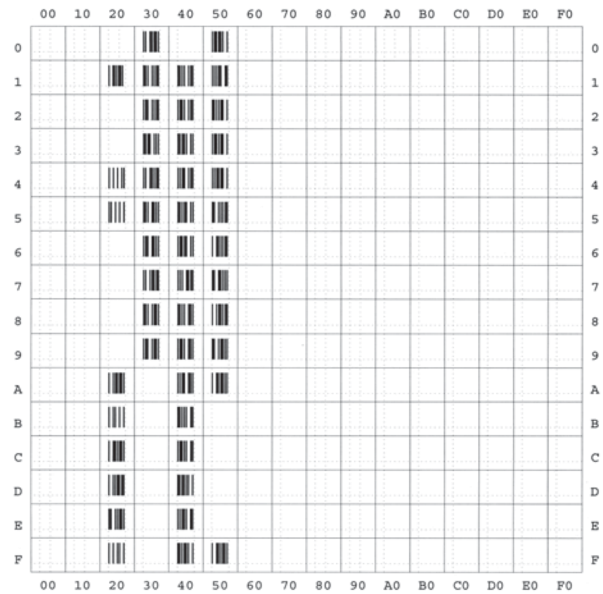
Windows Baltic

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
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4			$	4	D	T	d	t	„	”	¤	´	Ä	Ō	ä	ō
5			%	5	E	U	e	u	…	•		µ	Å	Õ	å	õ
6			&	6	F	V	f	v	†	–	¦	¶	Ę	Ö	ę	ö
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8			(	8	H	X	h	x			Ø	ø	Č	Ų	č	ų
9			)	9	I	Y	i	y	‰	™	©	¹	É	Ł	é	ł
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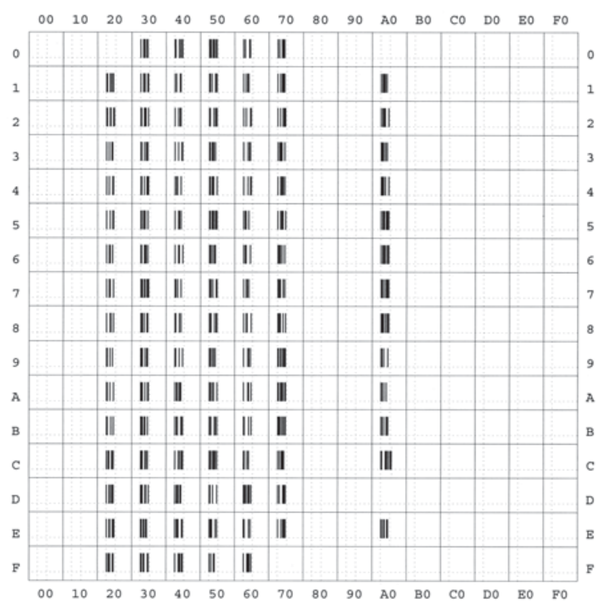
Wingdings



3 of 9 Barcode



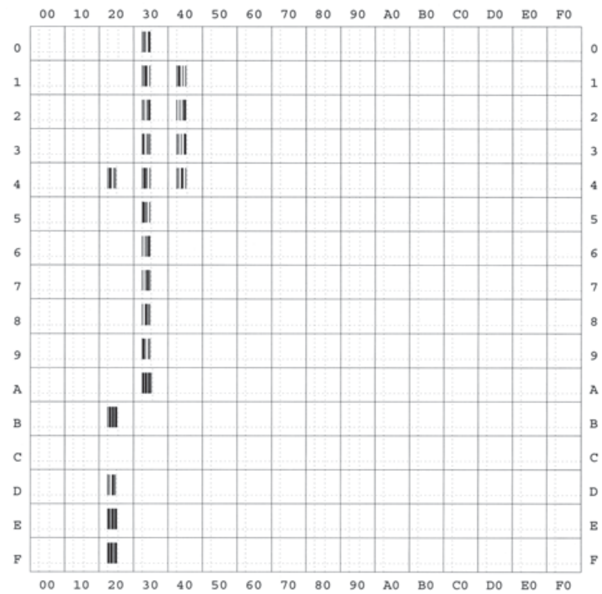
Code 128



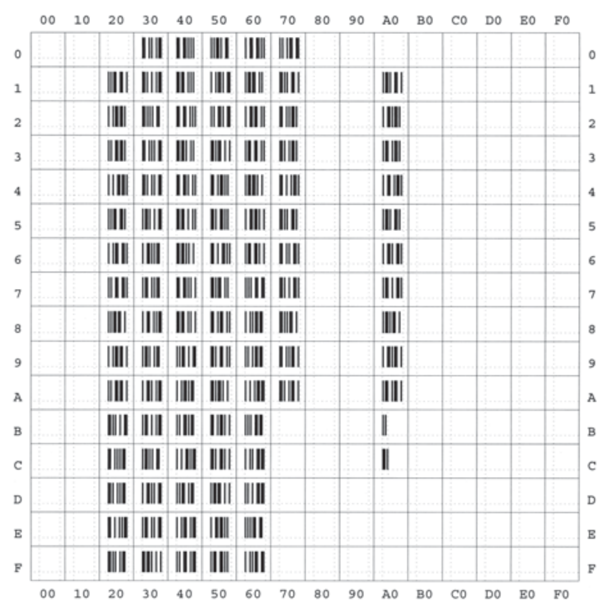
6

Appendix

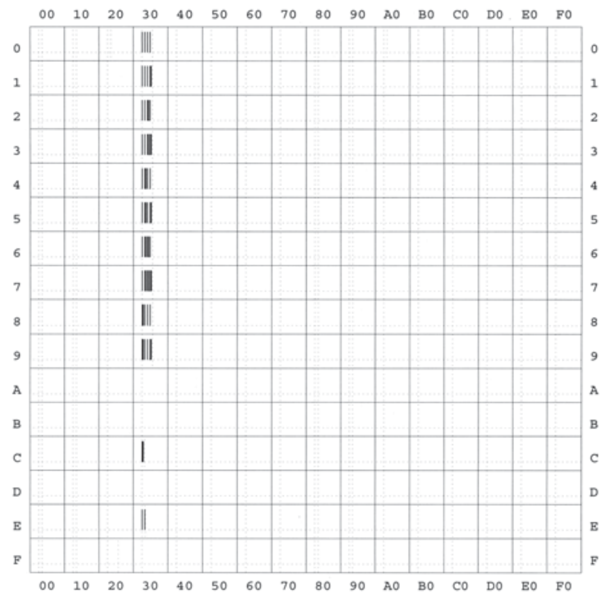
Code bar



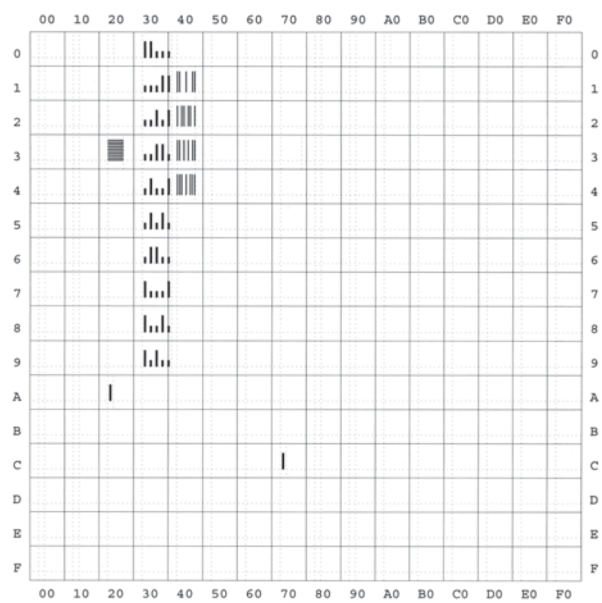
Interleaved 2 of 5



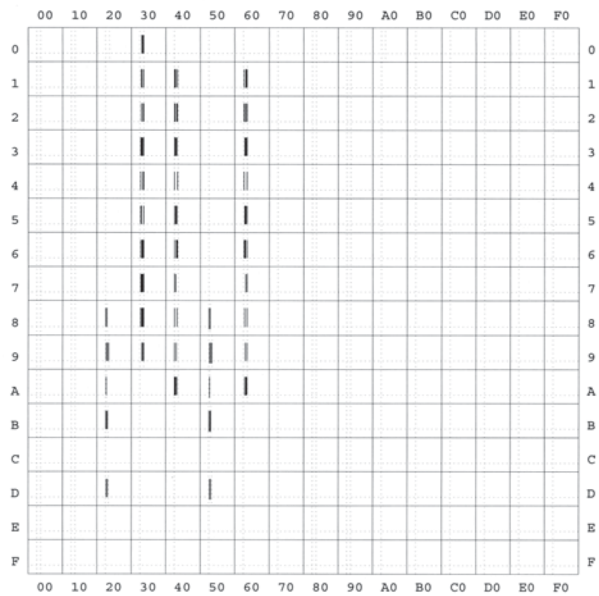
MSI / Plessey



PostNet



UPC / EAN barcode



OCR-A

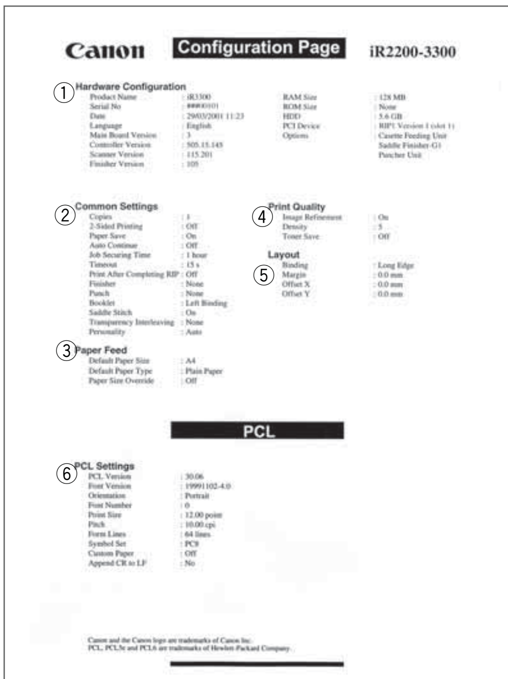


OCR-B

	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	
0				0	@	P	`	p									0
1			!	1	A	Q	a	q									1
2			"	2	B	R	b	r									2
3			#	3	C	S	c	s									3
4			$	4	D	T	d	t									4
5			%	5	E	U	e	u									5
6			&	6	F	V	f	v									6
7			'	7	G	W	g	w									7
8			(	8	H	X	h	x									8
9			)	9	I	Y	i	y									9
A			*	:	J	Z	j	z									A
B			+	;	K	[	k	{									B
C			,	<	L	\	l	|									C
D			-	=	M	]	m	}									D
E			.	>	N	^	n	~									E
F			/	?	O	_	o										F
	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0	

Configuration Page Sample

PCL Configuration Page



Canon **Configuration Page** iR2200-3300

① **Hardware Configuration**

Product Name	: iR3300	RAM Size	: 128 MB
Serial No	: ####0101	ROM Size	: None
Date	: 29/03/2001 11:23	HDD	: 5.6 GB
Language	: English	PCI Device	: RIP1 Version 1 (slot 1)
Main Board Version	: 3	Options	: Casette Feeding Unit
Controller Version	: 505.15.145		Saddle Finisher-G1
Scanner Version	: 115.201		Puncher Unit
Finisher Version	: 105		

② **Common Settings**

Copies	: 1
2-Sided Printing	: Off
Paper Save	: On
Auto Continue	: Off
Job Securing Time	: 1 hour
Timeout	: 15 s
Print After Completing RIP	: Off
Finisher	: None
Punch	: None
Booklet	: Left Binding
Saddle Stitch	: On
Transparency Interleaving	: None
Personality	: Auto

④ **Print Quality**

Image Refinement	: On
Density	: 5
Toner Save	: Off

⑤ **Layout**

Binding	: Long Edge
Margin	: 0.0 mm
Offset X	: 0.0 mm
Offset Y	: 0.0 mm

③ **Paper Feed**

Default Paper Size	: A4
Default Paper Type	: Plain Paper
Paper Size Override	: Off

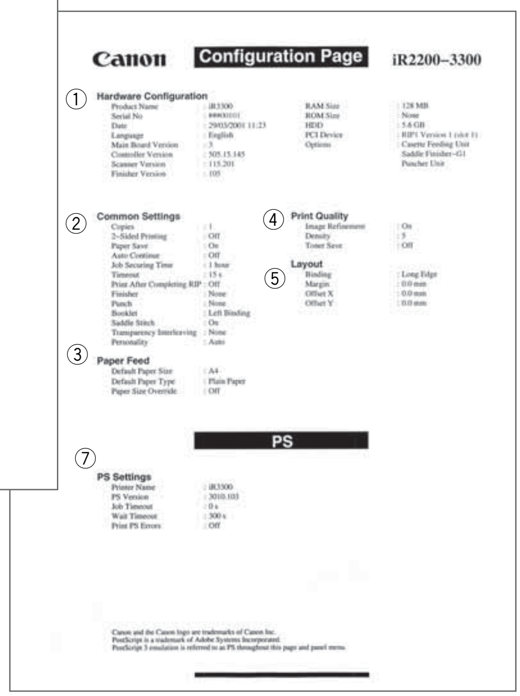
PCL

⑥ **PCL Settings**

PCL Version	: 30.06
Font Version	: 19991102-4.0
Orientation	: Portrait
Font Number	: 0
Point Size	: 12.00 point
Pitch	: 10.00 cpi
Form Lines	: 64 lines
Symbol Set	: PC8
Custom Paper	: Off
Append CR to LF	: No

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PS Configuration Page



Canon **Configuration Page** iR2200–3300

① **Hardware Configuration**

Product Name	: iR3300	RAM Size	: 128 MB
Serial No	: ####0101	ROM Size	: None
Date	: 29/03/2001 11:23	HDD	: 5.6 GB
Language	: English	PCI Device	: RIP1 Version 1 (slot 1)
Main Board Version	: 3	Options	: Casette Feeding Unit
Controller Version	: 505.15.145		Saddle Finisher–G1
Scanner Version	: 115.201		Puncher Unit
Finisher Version	: 105		

② **Common Settings**

Copies	: 1
2–Sided Printing	: Off
Paper Save	: On
Auto Continue	: Off
Job Securing Time	: 1 hour
Timeout	: 15 s
Print After Completing RIP	: Off
Finisher	: None
Punch	: None
Booklet	: Left Binding
Saddle Stitch	: On
Transparency Interleaving	: None
Personality	: Auto

④ **Print Quality**

Image Refinement	: On
Density	: 5
Toner Save	: Off

⑤ **Layout**

Binding	: Long Edge
Margin	: 0.0 mm
Offset X	: 0.0 mm
Offset Y	: 0.0 mm

③ **Paper Feed**

Default Paper Size	: A4
Default Paper Type	: Plain Paper
Paper Size Override	: Off

PS

⑦ **PS Settings**

Printer Name	: iR3300
PS Version	: 3010.103
Job Timeout	: 0 s
Wait Timeout	: 300 s
Print PS Errors	: Off

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PostScript 3 emulation is referred to as PS throughout this page and panel menu.

The Configuration Page includes the following information:

① **Hardware Configuration**

This section displays the hardware configuration of the machine, including any options that have been installed.

② **Common Settings**

This section displays the common printer settings of the machine, as determined by the Settings menu. (See "Settings Menu," on p. 3-3.)

③ **Paper Feed**

This section displays the paper feed settings for the printer function of the machine, as determined by the Paper Feed section of the Settings menu. (See "Paper Feed," on p. 3-4.)

④ **Print Quality**

This section displays the print quality settings for the printer function of the machine, as determined by the Print Quality section of the Settings menu. (See "Print Quality," on p. 3-6.)

⑤ **Layout**

This section displays the layout settings for the printer function of the machine, as determined by the Layout section of the Settings menu. (See "Layout," on p. 3-7.)

⑥ **PCL Settings**

This section displays the PCL settings for the printer function of the machine, as determined by the PCL section of the Settings menu. (See "PCL," on p. 3-20.)

⑦ **PS Settings**

This section displays the PS settings for the printer function of the machine, as determined by the PS section of the Settings menu. (See "PS," on p. 3-22.)

Specifications

Software Specifications

Command language:	PCL 6, PCL 5e, PostScript 3 emulation
Resident fonts:	PCL 80 Scalable fonts 30 Barcode fonts 2 OCR fonts 9 Bitmap fonts PS 136 Scalable fonts
Printable area:	PCL 5e Reduced to 1/6" (4 mm) from the top, bottom, left, and right edges of the paper. PCL 6, PostScript 3 emulation Reduced to 1/6" (4 mm) from the top, bottom, left, and right edges of the paper.

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